WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 07/31/12
API #: 47-103-02647

Farm name: Dorsey, Robert Operator Well No.: Charles Musgrave 1H

LOCATION: Elevation: 1,349' Quadrangle: Littleton 7.5'

District: Center County: Wetzel
Latitude: 10,892' Feet South of 39 Deg. 42 Min. 30.0 Sec.
Longitude 3,999' Feet West of 80 Deg. 35 Min. 00.0 Sec.

Company: Grenadier Energy Partners, LLC

Address: CT Corportion, 707 Virginia Street East 15th Floor, Charleston, WV 25301	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Agent: Dianna Stamper	24"	40'	40'	Grouted In
Inspector: Derek Haught	16"	420'	420'	495 cu.ft (CTS)
Date Permit Issued: 03/31/2011	11-3/4"	1543'	1543'	1071 cu.ft (CTS)
Date Well Work Commenced: 07/26/2011	8-5/8"	2746'	2746'	841 cu.ft (CTS)
Date Well Work Completed: 12/08/2012	5-1/2"	10326'	10326'	1901 cu.ft (CTS)
Verbal Plugging:				
Date Permission granted on:				
Rotary [X] Cable [ ] Rig [ ]				
Total Vertical Depth (ft): 7520'				
Total Measured Depth (ft): 10356'				
Fresh Water Depth (ft.): Est. 280'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): N/A				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Shale Pay zone depth (ft) 7654' - 10160' MD
Gas: Initial open flow 6342 MCF/d Oil: Initial open flow – Bbl/d
Final open flow – MCF/d Final open flow – Bbl/d
Time of open flow between initial and final tests – Hours
Static rock Pressure 4125 psig (surface pressure) after 168 Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

8/1/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes (Electrical)
GR-Compensated Neutron-Photo Density, GR-Dual-Laterolog, GR-Compensated Sonic

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: Total Perforated Interval (7654' - 10160' MD)

Fluid: 82,212 bbl Slickwater pumped in 7 Stages

Sand: 1,524,515 lbs 100 mesh sand, 1,560,285 lbs 40/70 sand

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Top Depth / Bottom Depth
Surface:

See Attached Sheet

Formation/Lithology	From	To
Silt & Shale	0	1040
Red Rocks	1040	1095
Sand & Shale	1095	1931
Salt Sand	2354	2372
Strate	2000	2057
Big Lime	2390	2486
Big Injun	2480	2672
Silt & Shale	2356	2900
Gordon Stray Ss	3217	3225
Silt and Shale	2910	2938
Gordon Ss	3262	3308
Silt and Shale	2991	3030
Fourth Gordon ss	3358	3360
Silt and Shale	3042	6444
Rhinestreet	6648	7078
Sonya Sh	7078	7246
Genesee Sh	7246	7316
Geneseo Sh	7316	7346
Trully Lm	7346	7350
Hamilton Sh	7350	7466
Marcellus Sh	7466	7510
Onondaga	7510	N/A

WR-35

4/23/2010

API # 47 103 2556

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

COPY

Farm name: WASHINGTON, DONALD E. Operator Well No.: MARY JANE CLARK 303

LOCATION: Elevation: 1,415' Quadrangle: PINE GROVE 7.5'

District: GRANT County: WETZEL
Latitude: 8,270 Feet south of 39 Deg 37 Min 30 Sec.
Longitude: 4,600 Feet west of 80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE
Permit Issued: 04/23/10
Well work Commenced: 06/03/10
Well work Completed: 07/21/10
~~Verbal plugging~~
permission granted on:
Rotary X Cable Rig
Total Depth (feet) 3530'
Fresh water depths (ft)

Salt water depths (ft)

Is coal being mined in area (Y/N) N
Coal Depths (ft): 800'-805'

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	1385'	1385'	340 sks
4 1/2"	3466'	3466'	150 sks

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WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3324'-3328'
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock pressure ____ psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock pressure ____ psig (surface pressure) after ____ Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EAST RESOURCES, INC.
By: [signature]
Date: 9/25/12

Treatment : Treated perfs (3324'-3338') w/ 250 gals 15% HCl acid, 373 bbls cross linked gel, and 25,000# 20/40 sand.

Well Log :

0	256	Sand and Shale
256	280	Sand
280	356	Shale
356	368	Sand
368	636	Shale
636	644	Sand
644	652	Shale
652	662	Sand
662	800	Shale
800	805	Coal
805	846	Shale
846	878	Sand
878	1022	Shale
1022	1072	Sand
1072	1080	Shale
1080	1152	Sand
1152	1164	Shale
1164	1196	Sand
1196	1210	Shale
1210	1246	Sand
1246	1254	Shale
1254	1406	Sand
1406	1442	Shale
1442	1454	Sand
1454	1761	Shale
1761	1785	Sand
1785	1856	Shale
1856	1886	Sand
1886	1908	Shale
1908	1948	Sand
1948	1956	Shale
1956	1974	Sand
1974	2210	Shale
2210	2236	Sand
2236	2390	Shale
2390	2418	Sand
2418	2430	Shale
2430	2442	Sand
2442	2508	Big Lime
2508	2730	Big Injun
2730	3288	Shale
3288	3313	Gordon Stray
3313	3320	Shale
3320	3341	Gordon
3341	3357	Shale
3357	3361	Sand
3361	3530	Shale
3530		TD

WR-35

4/23/2010

API # 47 103 2556

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

COPY

Farm name: WASHINGTON, DONALD E. Operator Well No.: MARY JANE CLARK 303

LOCATION: Elevation: 1,415' Quadrangle: PINE GROVE 7.5'

District: GRANT County: WETZEL
Latitude: 8,270 Feet south of 39 Deg 37 Min 30 Sec.
Longitude: 4,600 Feet west of 80 Deg 37 Min 30 Sec.

Company: EAST RESOURCES, INC.
P.O. BOX 5519
VIENNA, WV 26105-5519

Agent: PHILIP S. ONDRUSEK

Inspector: DAVID SCRANAGE
Permit Issued: 04/23/10
Well work Commenced: 06/03/10
Well work Completed: 07/21/10
~~Verbal plugging~~
permission granted on: _____
Rotary X Cable _____ Rig
Total Depth (feet) 3530'
Fresh water depths (ft) _____

Salt water depths (ft) _____

Is coal being mined in area (Y/N) N
Coal Depths (ft): 800'-805'

Casing Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
7"	1385'	1385'	340 sks
4 1/2"	3466'	3466'	150 sks

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Environmental Protection

OPEN FLOW DATA

Producing formation Gordon Pay zone depth (ft) 3324'-3328'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM, PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: EAST RESOURCES, INC.
By: _____
Date: 9/20/10

Treatment : Treated perfs (3324'-3338') w/ 250 gals 15% HCl acid, 373 bbls cross linked gel, and 25,000# 20/40 sand.

Well Log :

0	256	Sand and Shale
256	280	Sand
280	356	Shale
356	368	Sand
368	636	Shale
636	644	Sand
644	652	Shale
652	662	Sand
662	800	Shale
800	805	Coal
805	846	Shale
846	878	Sand
878	1022	Shale
1022	1072	Sand
1072	1080	Shale
1080	1152	Sand
1152	1164	Shale
1164	1196	Sand
1196	1210	Shale
1210	1246	Sand
1246	1254	Shale
1254	1406	Sand
1406	1442	Shale
1442	1454	Sand
1454	1761	Shale
1761	1785	Sand
1785	1856	Shale
1856	1886	Sand
1886	1908	Shale
1908	1948	Sand
1948	1956	Shale
1956	1974	Sand
1974	2210	Shale
2210	2236	Sand
2236	2390	Shale
2390	2418	Sand
2418	2430	Shale
2430	2442	Sand
2442	2508	Big Lime
2508	2730	Big Injun
2730	3288	Shale
3288	3313	Gordon Stray
3313	3320	Shale
3320	3341	Gordon
3341	3357	Shale
3357	3361	Sand
3361	3530	Shale
3530		TD

WR-35

December 5, 2012

API # 47 - 017- 06133

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Targa Maxwell** Operator Well No. : **Ten (10)**

LOCATION: Elevation: **1164** Quadrangle: **New Milton 7.5**
District: **New Milton** County: **Doddridge**
Latitude: **39.23571** Feet South of **39** Deg. **14** Min. **08.6** Sec.
Longitude: **80.73207** Feet West of **80** Deg. **43** Min. **55.4** Sec.

Company: **KEY OIL COMPANY**
22 GARTON PLAZA
WESTON, WV 26452

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **07-21-12**
Well Work Commenced: **10-09-12**
Well Work Completed: **10-13-12**
Verbal Plugging **N/A**
Permission granted on: **08-15-12**
Rotary **X** Cable Rig
Total Depth (feet) **2830'**
Fresh water depths (ft) **210'**
Salt water depths (ft) **1420'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
11"	**32'**	**32'**	**Sanded in**
9-5/8"	**252'**	**252'**	**70 sks. CTS**
7"	**1226'**	**1226'**	**170 sks. CTS**
4-1/2"	**2776'**	**2776'**	**150 sks. ETOC 1100'**

OPEN FLOW DATA

Gantz/Gordon		**2386-2616**
Weir		**2218-2262**
Injun		**1996-2002**
Blue Monday		**1870-1890**

Producing formation **Maxton** Pay zone depth (ft) **1660-1670**
Gas: Initial open flow **115** MCF / D Oil: Initial open flow **Show** Bbl / D
Final open flow **1278** MCF / D Oil: Final open flow **Show** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **650** psig (surface pressure) after **24** Hours
All Formations Comingled.

Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D
Final open flow MCF / D Oil: Final open flow Bbl / D
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY
By: Jan Chapman PRESIDENT
Date: **December 5, 2012**

Targa Maxwell #10 (47-017-06133)

TREATMENT:

Gantz & Gordon	(20 holes) 2386-2616	sand, water and N2: 30,300# 20/40 sand, 282,000 SCF N2, 180 bbl. water
Weir	(25 holes) 2218-2262	sand, water and N2: 20,000# 20/40 sand, 234,000 SCF N2, 148 bbl. water
Injun	(20 holes) 1996-2002	sand, water and N2: 20,000# 20/40 sand, 229,000 SCF N2, 150 bbl. water
Blue Monday	(20 holes) 1870-1890	sand, water and N2: 20,000# 20/40 sand, 239,000 SCF N2, 140 bbl. water
Maxton	(20 holes) 1660-1670	sand, water and N2: 30,000# 20/40 sand, 268,000 SCF N2, 210 bbl. water

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FORMATIONS:

Sand & Shale	0'	1600'
Maxton	1600'	1680'
Sand & Shale	1680'	1860'
Blue Monday	1860'	1890'
Shale	1890'	1900'
Big Lime	1900'	1980'
Injun	1980'	2020'
Sand & Shale	2020'	2180'
Weir	2180'	2270'
Shale	2270'	2380'
Gantz	2380'	2390'
Sand & Shale	2390'	2590'
Gordon	2590'	2620'
Shale	2620'	2830'
TD		2830'

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December 5, 2012

API # 47 - 017- 06132

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Targa Maxwell** Operator Well No. : **Nine (9)**

LOCATION: Elevation: **1026** Quadrangle: **New Milton 7.5**
District: **New Milton** County: **Doddridge**
Latitude: **39.23299** Feet South of **39** Deg. **13** Min. **58.8** Sec.
Longitude: **80.72729** Feet West of **80** Deg. **42** Min. **30.0** Sec.

Company: **KEY OIL COMPANY**
22 GARTON PLAZA
WESTON, WV 26452

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **07-27-12**
Well Work Commenced: **10-01-12**
Well Work Completed: **10-05-12**
Verbal Plugging **N/A**
Permission granted on: **08-15-12**
Rotary **X** Cable Rig
Total Depth (feet) **2705'**
Fresh water depths (ft) **140'**
Salt water depths (ft) **1400'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
11"	**34'**	**Pulled**	**N/A**
9-5/8"	**252'**	**252'**	**75 sks. CTS**
7"	**1137'**	**1137'**	**170 sks. CTS**
4-1/2"	**2667'**	**2667'**	**150 sks. ETOC 1100'**

OPEN FLOW DATA **Gordon** **2472-2491**
Gantz **2260-2266**
Weir **2074-2124**
Keener & Injun **1856-1892**
Producing formation **Blue Monday** Pay zone depth (ft) **1750-1760**
Gas: Initial open flow **141** MCF / D Oil: Initial open flow **Show** Bbl / D
Final open flow **1520** MCF / D Oil: Final open flow **2** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **725** psig (surface pressure) after **24** Hours
All Formations Comingled.
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D
Final open flow MCF / D Oil: Final open flow Bbl / D
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY
By: 
PRESIDENT
Date: **December 5, 2012**

Targa Maxwell #9 (47-017-06132)

TREATMENT:

Gordon	(20 holes) 2472-2491	sand, water and N2: 30,000# 20/40 sand, 288,000 SCF N2, 180 bbl. water
Gantz	(20 holes) 2260-2266	sand, water and N2: 20,000# 20/40 sand, 238,000 SCF N2, 142 bbl. water
Weir	(21 holes) 2074-2124	sand, water and N2: 20,000# 20/40 sand, 227,000 SCF N2, 140 bbl. water
Keener & Injun	(20 holes) 1856-1892	sand, water and N2: 20,100# 20/40 sand, 234,000 SCF N2, 140 bbl. water
Blue Monday	(20 holes) 1750-1760	sand, water and N2: 18,200# 20/40 sand, 214,000 SCF N2, 181 bbl. water

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FORMATIONS:

Sand & Shale	0'	1230'
Salt Sand	1230'	1330'
Shale	1330'	1500'
Salt Sand	1500'	1560'
Sand & Shale	1560'	1720'
Little Lime	1720'	1740'
Blue Monday	1740'	1760'
Big Lime	1760'	1840'
Keener	1840'	1860'
Injun	1860'	1890'
Shale	1890'	2050'
Weir	2050'	2140'
Shale	2140'	2260'
Gantz	2260'	2270'
Sand & Shale	2270'	2470'
Gordon	2470'	2491'
Shale	2491'	2705'
TD		2705'

WR-35 December 5, 2012

API # 47 - 017- 06131

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Targa Maxwell** Operator Well No. : **Eight (8)**

LOCATION: Elevation: **1141** Quadrangle: **New Milton 7.5**
District: **New Milton** County: **Doddridge**
Latitude: **39.22970** Feet South of **39** Deg. **13** Min. **46.9** Sec.
Longitude: **80.73029** Feet West of **80** Deg. **15** Min. **00.0** Sec.

Company: **KEY OIL COMPANY**
22 GARTON PLAZA
WESTON, WV 26452

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **07-27-12**
Well Work Commenced: **10-14-12**
Well Work Completed: **10-19-12**
~~Verbal Plugging **N/A**~~
Permission granted on: **08-15-12**
Rotary **X** Cable Rig
Total Depth (feet) **2860'**
Fresh water depths (ft) **170'**
Salt water depths (ft) **1400'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
11"	**32'**	**32'**	**Sanded In**
9-5/8"	**252'**	**252'**	**75 sks. CTS**
~~**7"**~~	~~**1223'**~~	~~**1223'**~~	~~**170 sks. CTS**~~
4-1/2"	**2778'**	**2778'**	**160 sks. ETOC 1100'**

OPEN FLOW DATA

Gantz/Gordon	**2380-2610**
Weir	**2176-2240**
Injun	**2006-2018**
Keener	**1952-1960**

Producing formation **Blue Monday** Pay zone depth (ft) **1870-1896**
Gas: Initial open flow **119** MCF / D Oil: Initial open flow **Show** Bbl / D
Final open flow **1061** MCF / D Oil: Final open flow **2** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **1000** psig (surface pressure) after **24** Hours
All Formations Comingled.
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D
Final open flow MCF / D Oil: Final open flow Bbl / D
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY
By: Jan Chapman PRESIDENT
Date: **December 5, 2012**

Targa Maxwell #8 (47-017-06131)

TREATMENT:

Gordon/Gantz	(19 holes) 2380-2610	sand, water and N2: 30,000# 20/40 sand, 280,000 SCF N2, 181 bbl. water
Weir	(25 holes) 2176-2240	sand, water and N2: 20,000# 20/40 sand, 257,000 SCF N2, 147 bbl. water
Injun	(20 holes) 2006-2018	sand, water and N2: 20,000# 20/40 sand, 230,000 SCF N2, 143 bbl. water
Keener	(20 holes) 1952-1960	sand, water and N2: 3,000# 20/40 sand, 201,000 SCF N2, 91 bbl. water
Blue Monday	(20 holes) 1870-1896	sand, water and N2: 15,000# 20/40 sand, 235,000 SCF N2, 141 bbl. water

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FORMATIONS:

Sand & Shale	0'	1230'
Shale	1230'	1630'
Maxton	1630'	1680'
Shale	1680'	1840'
Little Lime	1840'	1870'
Blue Monday	1870'	1900'
Big Lime	1900'	1950'
Keener	1950'	1960'
Sand	1960'	1990'
Injun	1990'	2020'
Sand & Shale	2020'	2170'
Weir	2170'	2260'
Shale	2260'	2380'
Gantz	2380'	2390'
Shale	2390'	2590'
Gordon	2590'	2610'
Shale	2610'	2860'
TD		2860'

WR-35

December 5, 2012

API # 47 - 017- 06130

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Well Operator's Report of Well Work

Farm Name: **Targa Maxwell** Operator Well No. : **Seven (7)**

LOCATION: Elevation: **1041** Quadrangle: **New Milton 7.5**
District: **New Milton** County: **Doddridge**
Latitude: **39.23405** Feet South of **39** Deg. **14** Min. **02.6** Sec.
Longitude: **80.72719** Feet West of **80** Deg. **43** Min. **37.9** Sec.

Company: **KEY OIL COMPANY**
22 GARTON PLAZA
WESTON, WV 26452

Agent: **Jan E. Chapman**
Inspector: **Dave Scranage**
Permit Issued: **07-27-12**
Well Work Commenced: **09-25-12**
Well Work Completed: **09-29-12**
Verbal Plugging **N/A**
Permission granted on: **08-15-12**
Rotary **X** Cable Rig
Total Depth (feet) **2765'**
Fresh water depths (ft) **150'**
Salt water depths (ft) **1400'**
Is coal being mined in area (Y / N)? **No**
Coal Depths (ft): **NA**

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cu Ft
11"	**32'**	**Pulled**	**N/A**
9-5/8"	**252'**	**252'**	**90 sks. CTS**
7"	**1140'**	**1140'**	**160 sks. CTS**
4-1/2"	**2720'**	**2720'**	**150 sks. ETOC 1100'**

OPEN FLOW DATA **Gordon & 5th Sand** **2528-2678**
Gantz **2304-2310**
Weir **2102-2166**
Keener & Injun **1894-1942**
Producing formation **Blue Monday** Pay zone depth (ft) **1798-1808**
Gas: Initial open flow **103** MCF / D Oil: Initial open flow **2** Bbl / D
Final open flow **1233** MCF / D Oil: Final open flow **Show** Bbl / D
Time of open flow between initial and final tests **24** Hours
Static rock pressure **725** psig (surface pressure) after **24** Hours
All Formations Comingled.
Second producing formation Pay zone depth (ft)
Gas: Initial open flow MCF / D Oil: Initial open flow Bbl / D
Final open flow MCF / D Oil: Final open flow Bbl / D
Time of open flow between initial and final tests Hours
Static rock pressure psig (surface pressure) after Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: KEY OIL COMPANY
By: Jan Chapman PRESIDENT
Date: **December 5, 2012**

Targa Maxwell #7 (47-017-06130)

TREATMENT:

Gordon & 5th Sand	(20 holes) 2528-2678	sand, water and N2: 30,100# 20/40 sand, 301,000 SCF N2, 184 bbl. water
Gantz	(20 holes) 2304-2310	sand, water and N2: 20,000# 20/40 sand, 249,000 SCF N2, 143 bbl. water
Weir	(23 holes) 2102-2166	sand, water and N2: 20,000# 20/40 sand, 246,000 SCF N2, 140 bbl. water
Keener & Injun	(20 holes) 1894-1942	sand, water and N2: 30,300# 20/40 sand, 414,000 SCF N2, 233 bbl. water
Blue Monday	(20 holes) 1798-1808	sand, water and N2: 20,000# 20/40 sand, 225,000 SCF N2, 161 bbl. water

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FORMATIONS:

Sand & Shale	0'	1300'
Salt Sand	1300'	1350'
Shale	1350'	1770'
Little Lime	1770'	1790'
Blue Monday	1790'	1820'
Sand	1820'	1890'
Keener	1890'	1900'
Injun	1900'	1950'
Shale	1950'	2100'
Weir	2100'	2180'
Sand & Shale	2180'	2300'
Gantz	2300'	2310'
Shale	2310'	2510'
Gordon	2510'	2540'
5th Sand	2540'	2678'
Shale	2678'	2765'
TD		2765'

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 1-31-2012
API #: 47-069-00061

Farm name: George Gantzer 8H Operator Well No.: 832294

LOCATION: Elevation: 1260' Quadrangle: Valley Grove WV

District: Tridelphia County: Ohio
Latitude: 4750' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 13790' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	Driven
Agent: Eric Gillespie	13 3/8"	686'	686'	701 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2000'	2000'	908 Cu. Ft.
Date Permit Issued: 8/18/2010	5 1/2"	12675'	12675'	2473 Cu. Ft.
~~Date Well Work Commenced:~~ 1/16/2011				
Date Well Work Completed: 6/5/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6,509'				
Total Measured Depth (ft): 12,677'				
Fresh Water Depth (ft.): 30'				
Salt Water Depth (ft.): 1135'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 575'				
Void(s) encountered (N/Y) Depth(s) Y 575'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,528'-12,538'
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d
Final open flow 3,439 MCF/d Final open flow 190 Bbl/d
Time of open flow between initial and final tests 24 Hours
Static rock Pressure 4,231 psig (surface pressure) after _____ Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Darlene Williams
Signature

7-19-2012
Date

Were core samples taken? Yes_____ No N Were cuttings caught during drilling? Yes Y No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-6482' MD; LWD GR from 5552-12620' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Pilot Hole PBTD - Cement @ 5,506'

Lateral Wellbore PBTD - Cement @ 12,558.21'

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Name and Number: George Gantzer 8H (832294)

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
5/26/2011	12,216	12,538	5/26/2011	12,216	12,538	Slk Wtr	10,848	Sand	480,000	80.0
5/26/2011	11,816	12,138	5/26/2011	11,816	12,138	Slk Wtr	10,558	Sand	480,600	83.0
5/27/2011	11,416	11,738	5/27/2011	11,416	11,738	Slk Wtr	10,732	Sand	478,500	85.0
5/28/2011	10,997	11,338	5/28/2011	10,997	11,338	Slk Wtr	15,732	Sand	478,900	79.0
5/29/2011	10,603	10,938	5/29/2011	10,603	10,938	Slk Wtr	13,511	Sand	476,500	79.0
5/29/2011	10,200	10,538	5/29/2011	10,200	10,538	Slk Wtr	18,019	Sand	250,500	62.0
6/2/2011	9,728	10,050	6/2/2011	9,728	10,050	Slk Wtr	9,812	Sand	479,100	81.0
6/3/2011	9,328	9,648	6/3/2011	9,328	9,648	Slk Wtr	10,384	Sand	489,000	81.0
6/3/2011	8,935	9,250	6/3/2011	8,935	9,250	Slk Wtr	10,491	Sand	480,000	86.0
6/3/2011	8,528	8,850	6/3/2011	8,528	8,850	Slk Wtr	10,399	Sand	480,000	85.0
6/4/2011	8,128	8,450	6/4/2011	8,128	8,450	Slk Wtr	10,407	Sand	484,000	86.0
6/4/2011	7,728	8,050	6/4/2011	7,728	8,050	Slk Wtr	10,205	Sand	484,000	87.0
6/4/2011	7,328	7,650	6/4/2011	7,328	7,650	Slk Wtr	10,290	Sand	474,000	84.0
6/5/2011	6,928	7,250	6/5/2011	6,928	7,250	Slk Wtr	11,026	Sand	472,500	85.0
6/5/2011	6,528	6,850	6/5/2011	6,528	6,850	Slk Wtr	11,338	Sand	494,640	87.0

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SS	0	575
PITTSBURGH COAL	575	585
LS/SHALE	585	700
SS	700	1200
SHALE	1200	1290
SS	1290	1750
BIG LIME (LS)	1750	1800
BIG INJUN (SS)	1800	2011
SHALE	2011	6203
GENESEO (SH)	6203	6226
TULLY (LS)	6226	6256
HAMILTON (SH)	6256	6367
MARCELLUS (SH)	6367	6424
ONONDAGA (LS)	6424	
TD OF PILOT HOLE		6486

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	575	575
PITTSBURGH COAL	575	575	585	585
LS/SHALE	585	585	700	700
SS	700	700	1200	1200
SHALE	1200	1200	1290	1290
SS	1290	1290	1750	1750
BIG LIME (LS)	1750	1750	1800	1800
BIG INJUN (SS)	1800	1800	2011	2011
SHALE	2011	2011	6251	6218
GENESEO (SH)	6251	6218	6266	6230
TULLY (LS)	6266	6230	6142	6125
HAMILTON (SH)	6142	6125	6519	6374
MARCELLUS (SH)	6519	6374		
TD of Lateral			12677	6509

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SS	0	575
PITTSBURGH COAL	575	585
LS/SHALE	585	700
SS	700	1200
SHALE	1200	1290
SS	1290	1750
BIG LIME (LS)	1750	1800
BIG INJUN (SS)	1800	2011
SHALE	2011	6203
GENESEO (SH)	6203	6226
TULLY (LS)	6226	6256
HAMILTON (SH)	6256	6367
MARCELLUS (SH)	6367	6424
ONONDAGA (LS)	6424	
TD OF PILOT HOLE		6486

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	575	575
PITTSBURGH COAL	575	575	585	585
LS/SHALE	585	585	700	700
SS	700	700	1200	1200
SHALE	1200	1200	1290	1290
SS	1290	1290	1750	1750
BIG LIME (LS)	1750	1750	1800	1800
BIG INJUN (SS)	1800	1800	2011	2011
SHALE	2011	2011	6251	6218
GENESEO (SH)	6251	6218	6266	6230
TULLY (LS)	6266	6230	6142	6125
HAMILTON (SH)	6142	6125	6519	6374
MARCELLUS (SH)	6519	6374		
TD of Lateral			12677	6509

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-23-2012
API #: 47-069-00093

Farm name: Thelma Hays OHI 8H Operator Well No.: 833790

LOCATION: Elevation: 1250' Quadrangle: Bethany

District: Liberty County: Ohio
Latitude: 3500' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5550' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	101'	101'	174 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	654'	654'	701 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2099'	2099'	923 Cu. Ft.
Date Permit Issued: 8-30-2011	5 1/2"	13803'	13803'	2891 Cu. Ft.
Date Well Work Commenced: 11-25-2011				
Date Well Work Completed: 5-19-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐		AUG 27 2012		
Total Vertical Depth (ft): 6433'				
Total Measured Depth (ft): 13803'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 800'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 589'				
Void(s) encountered (N/Y) Depth(s) Y 590'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,820'-13,672'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,462* MCF/d Final open flow 207 Bbl/d
Time of open flow between initial and final tests 44 Hours *Calculated
Static rock Pressure 4,181* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-24-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5760-13803' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833790 Thelma Hays OHI 8H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
4/13/2012	13,143	13,672	5/11/2012	13,143	13,672	Slk wtr	11,815	Sand	630,460	74.0
5/11/2012	12,510	13,039	5/11/2012	12,510	13,039	Slk wtr	10,920	Sand	633,360	79.0
5/12/2012	11,878	12,407	5/12/2012	11,878	12,407	Slk wtr	9,877	Sand	622,560	78.0
5/12/2012	11,246	11,775	5/12/2012	11,246	11,775	Slk wtr	10,384	Sand	631,220	80.0
5/13/2012	10,614	11,142	5/16/2012	10,614	11,142	Slk wtr	12,882	Sand	629,220	78.0
5/16/2012	9,981	10,510	5/17/2012	9,981	10,510	Slk wtr	10,287	Sand	630,800	80.0
5/17/2012	9,349	9,878	5/17/2012	9,349	9,878	Slk wtr	11,582	Sand	628,860	78.0
5/17/2012	8,717	9,246	5/17/2012	8,717	9,246	Slk wtr	10,114	Sand	626,800	80.0
5/17/2012	8,085	8,613	5/18/2012	8,085	8,613	Slk wtr	9,998	Sand	631,920	80.0
5/19/2012	7,452	7,981	5/19/2012	7,452	7,981	Slk wtr	11,447	Sand	627,230	80.0
5/19/2012	6,820	7,349	5/19/2012	6,820	7,349	Slk wtr	9,853	Sand	629,680	80.0

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6433 ft TVD @ 13511 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	300	300
SS/LS	300	300	589	589
PITTSBURG COAL	589	589	595	595
LS/SH/SS	595	595	790	790
SS	790	790	1510	1510
SH/SS	1510	1510	1620	1620
BIG LIME (LS)	1620	1620	1646	1646
BIG INJUN (SS)	1646	1646	1920	1920
SHALE	1920	1920	6190	6163
GENESEO (SH)	6190	6163	6211	6181
TULLY (LS)	6211	6181	6264	6222
HAMILTON (SH)	6264	6222	6471	6339
MARCELLUS (SH)	6471	6339		
TD OF LATERAL			13803	6428

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-17-2012
API #: 47-051-01326

Farm name: Bonnette 3H Operator Well No.: 831493

LOCATION: Elevation: 1,457' Quadrangle: Wileyville

District: Meade County: Marshall
Latitude: 1,010' Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 10,325' Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	145 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	1,220'	1,220'	1375 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2,752'	2,752'	1263 Cu. Ft.
Date Permit Issued: 11-12-2009	5 1/2"	12,450'	12,450'	3183 Cu. Ft.
Date Well Work Commenced: 11-21-2011				
Date Well Work Completed: 5-18-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,095'				
Total Measured Depth (ft): 12,450'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,673'-12,302'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,972* MCF/d Final open flow 48 Bbl/d
Time of open flow between initial and final tests 24 Hours *Calculated
Static rock Pressure 4,565* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-21-2012
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 6540-12450' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 831493 Bonnette 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
1/20/2012	11,920	12,302	5/13/2012	11,920	12,302	Slk wtr	7,838	Sand	474,940	67
5/13/2012	11,212	11,821	5/15/2012	11,212	11,821	Slk wtr	11,011	Sand	692,514	83
5/15/2012	10,504	11,119	5/15/2012	10,504	11,119	Slk wtr	12,318	Sand	692,620	85
5/15/2012	9,796	10,406	5/16/2012	9,796	10,406	Slk wtr	10,711	Sand	686,680	84
5/16/2012	9,089	9,698	5/16/2012	9,089	9,698	Slk wtr	10,985	Sand	692,920	85
5/16/2012	8,381	8,990	5/18/2012	8,381	8,990	Slk wtr	12,143	Sand	691,660	81
5/18/2012	7,673	8,282	5/19/2012	7,673	8,282	Slk wtr	12,454	Sand	707,240	76

LATERAL WELLBORE

Maximum TVD of wellbore: 7095 ft TVD @ 7467 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
Limestone/SS/Shale	0	0	1110	1110
Pittsburgh Coal	1110	1110	1120	1120
Limestone/Shale	1120	1120	2261	2261
Big Lime	2261	2261	2399	2399
Big Injun	2399	2399	2607	2607
Shale	2607	2607	7032	6943
Geneseo	7032	6943	7056	6960
Tully	7056	6960	7238	7057
Marcellus	7238	7057	12450	6959

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-21-2012
API #: 47-009-00118

Farm name: Edward Zatta BRK 10H Operator Well No.: 834339

LOCATION: Elevation: 1220' Quadrangle: Tiltonsville

District: Buffalo County: Brooke
Latitude: 2120' Feet South of 40 Deg. 15 Min. 00 Sec.
Longitude 1300' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	26"	42'	42'	701 Cu. Ft.
Agent: Eric Gillespie	20"	304'	304'	550 Cu. Ft.
Inspector: Bill Hendershot	13 3/8"	650'	650'	701 Cu. Ft.
Date Permit Issued: 1-18-2012	9 5/8"	1708'	1708'	712 Cu. Ft.
Date Well Work Commenced: 3-14-2012	5 1/2"	10826'	10826'	2357 Cu. Ft.
Date Well Work Completed: 5-30-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5754'				
Total Measured Depth (ft): 10829'				
Fresh Water Depth (ft.): 70', 250'				
Salt Water Depth (ft.): 1350'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 252'				
Void(s) encountered (N/Y) Depth(s) Y 261'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,130'-10,691'
Gas: Initial open flow____ MCF/d Oil: Initial open flow____ Bbl/d
Final open flow Not Tested MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests____ Hours
Static rock Pressure____ psig (surface pressure) after ____ Hours

Second producing formation____ Pay zone depth (ft)____
Gas: Initial open flow____ MCF/d Oil: Initial open flow____ Bbl/d
Final open flow____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests____ Hours
Static rock Pressure____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-24-2012
Date

Were core samples taken? Yes_____ No N Were cuttings caught during drilling? Yes Y No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5202-10829' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834339 Edward Zatta BRK 10H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
5/3/2012	10,120	10,691	5/23/2012	10,120	10,691	Slk wtr	7,466	Sand	668,260	78
5/23/2012	9,455	10,026	5/24/2012	9,455	10,026	Slk wtr	10,566	Sand	666,060	80
5/24/2012	8,790	9,361	5/24/2012	8,790	9,361	Slk wtr	10,948	Sand	666,060	80
5/24/2012	8,125	8,696	5/24/2012	8,125	8,696	Slk wtr	10,735	Sand	662,440	80
5/25/2012	7,460	8,031	5/29/2012	7,460	8,031	Slk wtr	10,497	Sand	663,620	80
5/29/2012	6,797	7,366	5/29/2012	6,797	7,366	Slk wtr	13,316	Sand	669,760	80
5/29/2012	6,130	6,701	5/30/2012	6,130	6,701	Slk wtr	10,140	Sand	666,400	80

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5754 ft TVD @ 10829 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SS	0	0	252	252
PITTSBURG COAL	252	252	260	260
SS/LS	260	260	1000	1000
SS	1000	1000	1100	1100
BIG LIME (LS)	1100	1100	1306	1306
BIG INJUN (SS)	1306	1306	1509	1509
SHALE	1509	1509	5749	5544
GENESEO (SH)	5749	5544	5767	5556
TULLY (LS)	5767	5556	5832	5600
HAMILTON (SH)	5832	5600	5988	5687
MARCELLUS (SH)	5988	5687		
TD OF LATERAL			10829	5754

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/19/2012
API #: 47-017-06045

Farm name: Ash, Allen L. & Janet S. Operator Well No.: Webb Unit 2H

LOCATION: Elevation: 921' Quadrangle: Salem 7.5'

District: McClellan County: Doddridge
Latitude: 4,826 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 2,374 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	531'	531'	738 Cu. Ft. Class A
Inspector: Sam Ward	9-5/8" 36#	2796'	2796'	1138 Cu. Ft. Class A
Date Permit Issued: 2/6/2012	5-1/2" 20#	13033'	13033'	3126 Cu. Ft. Class H
Date Well Work Commenced: 3/21/2012				
Date Well Work Completed: 9/18/2012	2-3/8" 4.7#	7131'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,103' TVD				
Total Measured Depth (ft): 13,033' MD, 7,036' TVD (BHL)				
Fresh Water Depth (ft.): 40', 192'				
Salt Water Depth (ft.): 545', 1644', 1692'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 181', 244', 311', 434', 624', 684', 711'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,088' TVD (Top)
Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 8,901 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

11/20/12
Date

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Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Webb Unit 1H API# 47-017-06044). Please reference wireline logs submitted with Form WR-35 for Webb Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7485'-12,968' MD (1128 holes)

Frac'd w/ 8,500 gals 15% HCL Acid, 121,094 bbls Slick Water carrying 620,700# 100 mesh,

2,286,100# 40/70 and 1,430,800# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Gordon	2,665'	3,013'
Fifth Sandstone	3,014'	3,074'
Bayard	3,075'	3,584'
Speechley	3,585'	3,903'
Balltown	3,904'	4,438'
Bradford	4,439'	4,997'
Benson	4,998'	5,238'
Alexander	5,239'	5,474'
Elk	5,475'	6,085'
Rhinestreet	6,086'	6,538'
Sycamore	6,539'	6,777'
Middlesex	6,778'	6,880'
Genundewa	6,881'	6,932'
Burket	6,933'	6,957'
Tully	6,958'	7,087'
Marcellus	7,088'	7103' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/2012
API #: 47-017-06046

Farm name: Ash, Allen L. & Janet S. Operator Well No.: Webb Unit 3H

LOCATION: Elevation: 921' Quadrangle: Salem 7.5'

District: McClellan County: Doddridge
Latitude: 4,816 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 2,374 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	41'	41'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	530'	530'	736 Cu. Ft. Class A
Inspector: Sam Ward	9-5/8" 36#	2794'	2794'	1138 Cu. Ft. Class A
Date Permit Issued: 2/6/2012	5-1/2" 20#	13314'	13314'	3204 Cu. Ft. Class H
Date Well Work Commenced: 4/9/2012				
Date Well Work Completed: 9/22/2012	2-3/8" 4.7#	7359'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,117' TVD				
Total Measured Depth (ft): 13,314' MD, 7,064' TVD (BHL)				
Fresh Water Depth (ft.): est. 40', 192'				
Salt Water Depth (ft.): est. 545', 1644', 1692'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 181', 244', 311', 434', 624', 684', 711'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,094' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 11,711 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Lisa Bottinelli
Signature

11/26/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Webb Unit 1H API# 47-017-06044). Please reference wireline logs submitted with Form WR-35 for Webb Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7453'-13,249' MD (1200 holes)

Frac'd w/ 9,000 gals 15% HCL Acid, 121,324 bbls Slick Water carrying 658,800# 100 mesh,

2,465,400# 40/70 and 1,413,600# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Gordon (est.)	2,667'		3,014'
Fifth Sandstone (est.)	3,015'		3,066'
Bayard (est.)	3,067'		3,591'
Speechley (est.)	3,592'		3,897'
Balltown (est.)	3,898'		4,438'
Bradford (est.)	4,439'		4,999'
Benson	5,000'		5,238'
Alexander	5,239'		5,478'
Elk	5,479'		6,086'
Rhinestreet	6,087'		6,544'
Sycamore	6,545'		6,781'
Middlesex	6,782'		6,891'
Genundewa	6,892'		6,938'
Burket	6,939'		6,963'
Tully	6,964'		7,093'
Marcellus	7,094'		7,117' TVD

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-033-05519

Farm name: Posey, Larry L. and Martha V. Operator Well No.: RR Unit 2H

LOCATION: Elevation: 1107' Quadrangle: Clarksburg

District: Coal County: Harrison
Latitude: 11,860 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10,385 Feet West of 80 Deg. 20 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 65.6#	40'	40'	95 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 68#	510'	510'	708 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2456'	2456'	1002 Cu. Ft. Class A
Date Permit Issued: 10/20/2011	5-1/2" 20#	15,651'	15,651'	3929 Cu. Ft. Class H
Date Well Work Commenced: 12/16/2011				
Date Well Work Completed: 04/01/2012	2-3/8" 4.7#	7491'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,120' TVD				
Total Measured Depth (ft): 15,651' MD, 6,963' TVD (BHL)				
Fresh Water Depth (ft.): 280'				
Salt Water Depth (ft.): *None available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): *Pad built on deepest coal seam				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,092' TVD (Top)
Gas: Initial open flow ------ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 8,601 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3300 psig (surface pressure) after ------ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Shawna Redican
Signature

11/26/12
Date

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Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Colly Unit 1H API# 47-033-05538). Please reference wireline logs submitted with Form WR-35 for Colly Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,620' - 15,585' MD (1,668 holes)

Frac'd w/ 12,000 gals 15% HCL Acid, 174,925 bbls Slick Water carrying 842,000# 100 mesh,

3,950,600# 40/70 and 2,565,900# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime est.	1,420'		1,517'
Big Injun est.	1,518'		1,879'
Gantz Sand est.	1,880'		1,970'
Fifty Foot Sandstone est.	1,971'		2,140'
Gordon est.	2,141'		2,387'
Fifth Sandstone	2,388'		2,444'
Bayard	2,445'		3,085'
Speechley	3,086'		3,360'
Balltown	3,361'		3,844'
Bradford	3,845'		4,412'
Benson	4,413'		4,760'
Alexander	4,761'		4,979'
Elk	4,980'		6,369'
Sycamore	6,370'		6,666'
Middlesex	6,667'		6,803'
Genundewa	6,804'		6,839'
Burket	6,840'		6,871'
Tully	6,872'		6,998'
Hamilton	6,999'		7,091'
Marcellus	7,092'		7,120' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/19/2012
API #: 47-017-06044

Farm name: Ash, Allen L. & Janet S. Operator Well No.: Webb Unit 1H

LOCATION: Elevation: 921' Quadrangle: Salem 7.5'

District: McClellan County: Doddridge
Latitude: 4,846 Feet South of 39 Deg. 22 Min. 30 Sec.
Longitude 2,374 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	531'	531'	738 Cu. Ft. Class A
Inspector: Sam Ward	9-5/8" 36#	2744'	2744'	1117 Cu. Ft. Class A
Date Permit Issued: 1/25/2012	5-1/2" 20#	12,615'	12,615'	3027 Cu. Ft. Class H
Date Well Work Commenced: 3/12/2012		Depth Set @		
Date Well Work Completed: 9/14/2012	Cement Plug	6325'		200 Cu. Ft. Class A
Verbal Plugging: N/A				
Date Permission granted on: N/A	2-3/8" 4.7#	7241'		
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,108' TVD				
Total Measured Depth (ft): 12,615' MD, 7,041' TVD (BHL)				
Fresh Water Depth (ft.): 181', 210', 244'				
Salt Water Depth (ft.): 1,653'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 311', 434', 624', 684', 711'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,080' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 6,196 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Lisa B. Hanelei
Signature

11/26/12
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL, Dual Laterolog/Gamma Ray, and Photo Density/Compensated Neutron/Gamma Ray,

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7347'-12,550' MD (1200 holes)

Frac'd w/ 9,500 gals 15% HCL Acid, 111,938 bbls Slick Water carrying 529,100# 100 mesh,

2,165,000# 40/70 and 1,251,700# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Gordon	2,667'		3,014'
Fifth Sandstone	3,015'		3,066'
Bayard	3,067'		3,591'
Speechley	3,592'		3,897'
Balltown	3,898'		4,438'
Bradford	4,439'		4,997'
Benson	4,998'		5,244'
Alexander	5,245'		5,475'
Elk	5,476'		6,081'
Rhinestreet	6,082'		6,535'
Sycamore	6,536'		6,767'
Middlesex	6,768'		6,877'
Genundewa	6,878'		6,925'
Burket	6,926'		6,951'
Tully	6,952'		7,079'
Marcellus	7,080'		7,108' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-033-05451

Farm name: I.L. Morris & Mike Ross, Inc. Operator Well No.: Reynolds Unit 1H

LOCATION: Elevation: 1169' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 3,622' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10,920' Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corp.

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 55#	469'	469'	652 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2515'	2515'	1024 Cu. Ft. Class A
Date Permit Issued: 7/22/2010	5-1/2" 20#	15,725'	15,725'	3934 Cu. Ft. Class H
Date Well Work Commenced: 12/8/2010				
Date Well Work Completed: 5/05/2011	2-3/8" 4.7#	7114'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7077' TVD				
Total Measured Depth (ft): 15,734' MD, 6906' TVD (BHL)				
Fresh Water Depth (ft.): 40'				
Salt Water Depth (ft.): 1100'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Pad built on deepest coal seam.				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,038' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow ---- Bbl/d
Final open flow 16,499 MCF/d Final open flow ---- Bbl/d
Time of open flow between initial and final tests ---- Hours
Static rock Pressure 3300 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

11/26/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes, Cement Bond Log, Photo Density/ Compensated Neutron/ Gamma Ray, Dual Laterolog/ Density Caliper/ Gamma Ray

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7443' – 15,600' MD (1368 holes)

Frac'd w/5,750 gals 15% HCL Acid, 140,397 bbls Slick Water carrying 644,700# 100 mesh, 2,984,000# 40/70 and 1,887,400# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Big Lime	1467'	1926'
Gantz	1927'	2188'
Gordon	2189'	3141'
Speechley	3142'	3350'
Balltown	3351'	4484'
Benson	4485'	4819'
Alexander	4820'	5025'
Elk	5026'	6832'
Sycamore	6360'	6832'
Tully	6833'	6958'
Hamilton	6959'	7037'
Marcellus	7038'	7077' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 08/10/2012
API #: 47-3305344

Farm name: Davis, Laura Goff Operator Well No.: Goff 3HM

LOCATION: Elevation: 1,196 GL / 1,214 KB Quadrangle: Wolf Summit

District: Clark County: Harrison
Latitude: 7,930 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 7,240 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: PDC Mountaineer

Address: 120 Genesis Blvd.	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Bridgeport, WV 26330	20"	104'	104'	CmtToSurf
Agent: Bob Williamson	13 3/8"	472'	472'	458
Inspector: Tim Bennett	9 5/8"	2,426'	2,426'	1009
Date Permit Issued: 12/17/2009	5 1/2"	6,310'	6,310'	1728
Date Well Work Commenced: 04/09/2010				
Date Well Work Completed: 08/02/2010				
Verbal Plugging:	2 3/8"		6980'	
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,028				
Total Measured Depth (ft): 9,875				
Fresh Water Depth (ft.): 99'				
Salt Water Depth (ft.): None Reported				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None Recorded - Air Drilled				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7020'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 538 MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests 720 Hours
Static rock Pressure 3500 psig (surface pressure) after 72 Hours

Second producing formation N/A Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

8-15-2012
Date

Were core samples taken? Yes_____ No XX

Were cuttings caught during drilling? Yes XX No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Weatherford Dens/Neutron/GR/Sonic/Caliper/Dual Lat, Mudlog, Quad Neutron, GR/CCL/Temp Radial Bond Log, Spectra-Chem Tracer Log

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing. or Stimulating:

Perforated interval 7,486 ft – 9,802 ft (350 shots). Frac'd 7 stages using 167 bbls 15% HCL, and 42,500 bbls of Slickwater carrying 483,700 lbs of 100-mesh sand, 996,800 lbs of 40/70 sand, and 72,800 lbs of 30/50 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Little Lime	* 1397	1415
Big Lime	1437	1550
Big Injun	1550	1603
Fifty Foot	1986	2070
Thirty Foot	2081	2130
Fourth SS	2298	2354
Fifth SS	2404	2442
Sycamore Grit	6296	6333
Genessee SH	6796	6810
Tully LS	6810	6883
Hamilton	6883	7020
Marcellus SH	7010	7100
Onondaga LS	7100	9875 MD-TD

*All log tops are from Weatherford pilot hole log at KB and are TVD unless noted as MD.

KOP at 6373' and LP at 7012'

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-21-2012
API #: 47-069-00086

Farm name: Thelma Hays OHI 5H Operator Well No.: 833464

LOCATION: Elevation: 1250 Quadrangle: Bethany

District: Liberty County: Ohio
Latitude: 3510' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5590' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	104'	104'	174 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	649'	649'	696 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2042'	2042'	892 Cu. Ft.
Date Permit Issued: 6-14-2011	5 1/2"	12703'	12703'	2677 Cu. Ft.
~~Date Well Work Commenced: 12-24-2011~~				
Date Well Work Completed: 5-18-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6386'				
Total Measured Depth (ft): 12703'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 800'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 589'				
Void(s) encountered (N/Y) Depth(s) Y 590'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,829'-12,571'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Not Tested MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-24-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5258-12651' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833464 Thelma Hays OHI 5H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
4/12/2012	12,149	12,571	5/9/2012	12,149	12,571	Slk wtr	7,870	Sand	443,880	74.0
5/9/2012	11,484	12,055	5/10/2012	11,484	12,055	Slk wtr	10,967	Sand	600,380	76.0
5/10/2012	10,819	11,390	5/13/2012	10,819	11,390	Slk wtr	10,181	Sand	598,900	80.0
5/13/2012	10,154	10,725	5/16/2012	10,154	10,725	Slk wtr	11,250	Sand	598,120	80.0
5/16/2012	9,489	10,060	5/16/2012	9,489	10,060	Slk wtr	9,913	Sand	602,960	78.0
5/16/2012	8,824	9,395	5/17/2012	8,824	9,395	Slk wtr	9,893	Sand	597,760	80.0
5/17/2012	8,159	8,730	5/18/2012	8,159	8,730	Slk wtr	9,909	Sand	596,360	80.0
5/18/2012	7,494	8,065	5/18/2012	7,494	8,065	Slk wtr	9,866	Sand	594,120	80.0
5/18/2012	6,829	7,400	5/18/2012	6,829	7,400	Slk wtr	9,785	Sand	598,200	80.0

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6386 ft TVD @ 6802 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	300	300
SS/LS	300	300	589	589
PITTSBURG COAL	589	589	595	595
LS/SH/SS	595	595	790	790
SS	790	790	1510	1510
SH/SS	1510	1510	1620	1620
BIG LIME (LS)	1620	1620	1646	1646
BIG INJUN (SS)	1646	1646	1920	1920
SHALE	1920	1920	6371	6181
GENESEO (SH)	6371	6181	6390	6196
TULLY (LS)	6390	6196	6445	6236
HAMILTON (SH)	6445	6236	6640	6349
MARCELLUS (SH)	6640	6349		
TD OF LATERAL			12651	6206

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-16-2012
API #: 47-009-00100

Farm name: Nick Ballato BRK 3H Operator Well No.: 637878

LOCATION: Elevation: 970' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 6,580' Feet South of 40 Deg. 20 Min. 00 Sec.
Longitude 8,330' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	114'	114'	Driven
Agent: Eric Gillespie	13 3/8"	381'	381'	465 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1310'	1310'	583 Cu. Ft.
Date Permit Issued: 6-16-2011	5 1/2"	9943'	9943'	2357 Cu. Ft.
~~Date Well Work Commenced:~~ 9-10-2011				
Date Well Work Completed: 3-14-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5463' (cement plug @ 4750' - 5537')				
Total Measured Depth (ft): 9943'				
Fresh Water Depth (ft.): 50', 80', 300'				
Salt Water Depth (ft.): 790'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 536'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 5,812' - 9,534'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 965* MCF/d Final open flow 174 Bbl/d
Time of open flow between initial and final tests 34 Hours
Static rock Pressure 3,551* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-16-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-5541' MD; LWD GR from 4833-9943' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): cement plug @ 4750' - 5537'

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

AUG 17 2012

PERFORATION RECORD ATTACHMENT

Well Number and Name: 637878 Nick Ballato BRK 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
11/20/2011	9,152	9,534	3/6/2012	9,152	9,534	Slk wtr	11,557	Sand	570,093	80
3/6/2012	8,673	9,056	3/7/2012	8,673	9,056	Slk wtr	7,604	Sand	565,940	71.3
3/7/2012	8,196	8,579	3/8/2012	8,196	8,579	Slk wtr	9,678	Sand	509,307	76
3/8/2012	7,720	8,107	3/10/2012	7,720	8,107	Slk wtr	9,724	Sand	571,060	80
3/10/2012	7,243	7,627	3/11/2012	7,243	7,627	Slk wtr	9,945	Sand	567,080	77.2
3/11/2012	6,766	7,150	3/12/2012	6,766	7,150	Slk wtr	11,257	Sand	570,740	80
3/12/2012	6,289	6,673	3/13/2012	6,289	6,673	Slk wtr	11,856	Sand	591,560	77
3/13/2012	5,812	6,196	3/14/2012	5,812	6,196	Slk wtr	12,226	Sand	570,720	75

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SH/LS/SS	0	536
PITTSBURG COAL	536	550
SS/SH	550	850
SS	850	958
BIG LIME (LS)	958	1076
BIG INJUN (SS)	1076	1244
SHALE	1244	5318
GENESEO (SH)	5318	5333
TULLY (LS)	5333	5385
HAMILTON (SH)	5385	5460
MARCELLUS (SH)	5460	5525
ONONDAGA (LS)	5525	
TD OF PILOT HOLE		5541

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SH/LS/SS	0	0	536	536
PITTSBURG COAL	536	536	550	550
SS/SH	550	550	850	850
SS	850	850	958	958
BIG LIME (LS)	958	958	1076	1076
BIG INJUN (SS)	1076	1076	1244	1244
SHALE	1244	1244	5358	5322
GENESEO (SH)	5358	5322	5376	5337
TULLY (LS)	5376	5337	5451	5389
HAMILTON (SH)	5451	5389	5604	5462
MARCELLUS (SH)	5604	5462		
TD OF LATERAL			9943	5463

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-15-2012
API #: 47-009-00099

Farm name: Nick Ballato BRK 1H Operator Well No.: 637877

LOCATION: Elevation: 970' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 6,580' Feet South of 40 Deg. 20 Min. 00 Sec.
Longitude 8,350' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	110'	110'	381 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	355'	355'	421 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	1400'	1400'	617 Cu. Ft.
Date Permit Issued: 6-16-2011	5 1/2"	10302'	10302'	2442 Cu. Ft.
~~Date Well Work Commenced:~~ 10-1-2011				
Date Well Work Completed: 3-15-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5502'				
Total Measured Depth (ft): 10302'				
Fresh Water Depth (ft.): 50', 80', 300'				
Salt Water Depth (ft.): 790'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 536'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 5,913' - 10,162'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,467* MCF/d Final open flow 260 Bbl/d
Time of open flow between initial and final tests 64 Hours *Calculated
Static rock Pressure 3,550* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-16-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 4953-10302' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See Attached)

AUG 17 2012

PERFORATION RECORD ATTACHMENT

Well Number and Name: 637877 Nick Ballato BRK 1H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
11/20/2011	9,754	10,162	3/6/2012	9,754	10,162	Slk wtr	10,233	Sand	574,860	80
3/6/2012	9,279	9,685	3/7/2012	9,279	9,685	Slk wtr	9,721	Sand	568,560	80
3/7/2012	8,803	9,210	3/8/2012	8,803	9,210	Slk wtr	9,937	Sand	575,000	80
3/8/2012	8,328	8,734	3/9/2012	8,328	8,734	Slk wtr	9,792	Sand	565,880	80
3/9/2012	7,852	8,259	3/9/2012	7,852	8,259	Slk wtr	12,012	Sand	569,600	77
3/10/2012	7,377	7,783	3/10/2012	7,377	7,783	Slk wtr	11,307	Sand	571,720	77
3/10/2012	6,901	7,308	3/11/2012	6,901	7,308	Slk wtr	9,642	Sand	571,900	80
3/11/2012	6,426	6,832	3/12/2012	6,426	6,832	Slk wtr	11,667	Sand	568,880	77
3/12/2012	5,913	6,357	3/15/2012	5,913	6,357	Slk wtr	29,893	Sand	683,740	75.5

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5502 ft TVD @ 6271 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SH/LS/SS	0	0	536	536
PITTSBURG COAL	536	536	550	550
SS/SH	550	550	850	850
SS	850	850	958	958
BIG LIME (LS)	958	958	1076	1076
BIG INJUN (SS)	1076	1076	1244	1244
SHALE	1244	1244	5519	5320
GENESEO (SH)	5519	5320	5538	5334
TULLY (LS)	5538	5334	5623	5388
HAMILTON (SH)	5623	5388	5794	5459
MARCELLUS (SH)	5794	5459		
TD OF LATERAL			10302	5461

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-7-2012
API #: 47-069-00087

Farm name: Alice Edge OHI 1H Operator Well No.: 833346

LOCATION: Elevation: 1220' Quadrangle: Valley Grove

District: Liberty County: Ohio
Latitude: 5250' Feet South of 40 Deg. 07 Min. 30 Sec.
Longitude 9130' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	392 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	655'	655'	661 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2056'	2056'	931 Cu. Ft.
Date Permit Issued: 5-31-2011	5 1/2"	11466'	11466'	2939 Cu. Ft.
~~Date Well Work Commenced:~~ 10-31-2011				
Date Well Work Completed: 4-20-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6401'				
Total Measured Depth (ft): 11466'				
Fresh Water Depth (ft.): 63'				
Salt Water Depth (ft.): 1155'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 580', 1030', 1240'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,970' - 11,357'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,793* MCF/d Final open flow 202 Bbl/d
Time of open flow between initial and final tests 64 Hours * Calculated
Static rock Pressure 4,147* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

RECEIVED
Office of Oil & Gas
AUG 15 2012
WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8/13/2012
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, resistivity to 2050'; LWD GR from 5950'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(see attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833346 Alice Edge OHI 1H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
1/26/2012	10,975	11,357	4/16/2012	10,975	11,357	Slk wtr	11,877	Sand	664,900	79
4/16/2012	10,303	10,862	4/16/2012	10,303	10,862	Slk wtr	11,953	Sand	661,500	80
4/16/2012	9,637	10,195	4/17/2012	9,637	10,195	Slk wtr	12,070	Sand	665,520	80
4/17/2012	8,970	9,529	4/19/2012	8,970	9,529	Slk wtr	11,878	Sand	659,640	80
4/19/2012	8,310	8,862	4/19/2012	8,310	8,862	Slk wtr	13,012	Sand	664,100	80
4/19/2012	7,637	8,195	4/20/2012	7,637	8,195	Slk wtr	12,644	Sand	660,790	80
4/20/2012	6,970	7,529	4/20/2012	6,970	7,529	Slk wtr	11,574	Sand	660,000	80

LATERAL WELLBORE (no vertical pilot hole associated with this well)				
Maximum TVD of wellbore:	6401 ft TVD @ 8203 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE / LS	0	0	580	580
PITTSBURGH COAL	580	580	605	605
SHALE	605	605	1030	1030
SS/SHALE/COAL	1030	1030	1090	1090
SHALE	1090	1090	1180	1180
SS/SHALE	1180	1180	1240	1240
SHALE/COAL	1240	1240	1300	1300
SHALE	1300	1300	1480	1480
SS	1480	1480	1540	1540
SHALE / SILT	1540	1540	1600	1600
LIMESTONE	1600	1600	1660	1660
SILT	1660	1660	1750	1750
BIG INJUN	1750	1750	1957	1957
SHALE / SILT	1957	1957	6511	6211
GENESEO	6511	6211	6532	6228
TULLY	6532	6228	6580	6266
HAMILTON	6580	6266	6762	6367
MARCELLUS	6762	6367		
End of Well			11466	6366

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-13-2012
API #: 47-069-00102

Farm name: Alice Edge OHI 8H Operator Well No.: 833043

LOCATION: Elevation: 1220' Quadrangle: Valley Grove

District: Liberty County: Ohio
Latitude: 5260' Feet South of 40 Deg. 07 Min. 30 Sec.
Longitude 9160' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	426 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	658'	658'	746 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2114'	2114'	915 Cu. Ft.
Date Permit Issued: 11-15-2011	5 1/2"	11348'	11348'	2936 Cu. Ft.
~~Date Well Work Commenced: 11-23-2011~~				
Date Well Work Completed: 4-20-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6462'				
Total Measured Depth (ft): 11348'				
Fresh Water Depth (ft.): 63'				
Salt Water Depth (ft.): 1155'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 580', 1030, 1240				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,844' - 11,211'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,813 MCF/d Final open flow 155 Bbl/d
Time of open flow between initial and final tests 41 Hours
Static rock Pressure 4,200 psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8/13/2012
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD GR from 5850° to TD

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833043 AliceEdge OHI 8H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
1/30/2012	10,844	11,211	4/13/2012	10,844	11,211	Slk wtr	9,270	Sand	489,140	77
4/13/2012	10,357	10,791	4/15/2012	10,357	10,791	Slk wtr	11,338	Sand	491,140	79
4/15/2012	9,855	10,289	4/15/2012	9,855	10,289	Slk wtr	10,132	Sand	489,660	80
4/16/2012	9,354	9,787	4/16/2012	9,354	9,787	Slk wtr	9,855	Sand	489,840	78
4/16/2012	8,852	9,285	4/18/2012	8,852	9,285	Slk wtr	9,543	Sand	486,360	80
4/18/2012	8,350	8,783	4/18/2012	8,350	8,783	Slk wtr	9,341	Sand	494,260	80
4/18/2012	7,848	8,282	4/18/2012	7,848	8,282	Slk wtr	9,234	Sand	492,340	80
4/19/2012	7,347	7,780	4/19/2012	7,347	7,780	Slk wtr	8,980	Sand	480,400	80
4/19/2012	6,844	7,278	4/20/2012	6,844	7,278	Slk wtr	9,349	Sand	490,460	80

LATERAL WELLBORE (no vertical pilot hole with this well)				
Maximum TVD of wellbore:	6462 ft TVD @ 11302 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE / LS	0	0	580	580
PITTSBURGH COAL	580	580	605	605
SHALE	605	605	1030	1030
SS/SHALE/COAL	1030	1030	1090	1090
SHALE	1090	1090	1180	1180
SS/SHALE	1180	1180	1240	1240
SHALE/COAL	1240	1240	1300	1300
SHALE	1300	1300	1480	1480
~~SS~~	~~1480~~	~~1480~~	~~1540~~	~~1540~~
SHALE / SILT	1540	1540	1600	1600
LIMESTONE	1600	1600	1660	1660
SILT	1660	1660	1750	1750
BIG INJUN	1750	1750	1957	1957
SHALE / SILT	1957	1957	6241	6200
GENESEO	6241	6200	6275	6225
TULLY	6275	6225	6331	6264
HAMILTON	6331	6264	6552	6369
MARCELLUS	6552	6369		
			11348	6462

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 7-31-2012
API #: 47-077-00566

Farm name: Dennis Hart 3H Operator Well No.: 832773

LOCATION: Elevation: 1735' Quadrangle: Morgantown North

District: Valley Point County: Preston
Latitude: 2137' Feet South of 39 Deg. 35 Min. 00 Sec.
Longitude 7701 Feet West of 79 Deg. 45 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	120'	120'	Driven
Agent: Eric Gillespie	13 3/8"	397'	397'	476 Cu. Ft.
Inspector: Bryan Harris	9 5/8"	3366'	3366'	213 Cu. Ft.
Date Permit Issued: 1/25/2011	5 1/2"	13884'	13884'	2619 Cu. Ft.
~~Date Well Work Commenced: 6/18/2011~~				
Date Well Work Completed: 1/26/2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7774' (cement plug @6625'-7200')				
Total Measured Depth (ft): 13885'				
Fresh Water Depth (ft.): 300'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 80', 180'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,876' - 13,745'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2,268* MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 50 Hours *Calculated
Static rock Pressure 4,969* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlon Williams
Signature

8/3/2012
Date

Were core samples taken? Yes_____ No N Were cuttings caught during drilling? Yes Y No___

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-7804' MD; LWD GR from 6850-13885' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Plug Back Details Including Plug Type and Depth(s): Cement plug @ 6625'- 7200'

Formations Encountered: Top Depth / Bottom Depth
Surface:

PERFORATION RECORD ATTACHMENT

Well Number and Name: 832773 Dennis Hart 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
12/14/2011	13,363	13,745	1/18/2012	13,363	13,745	Slk wtr	9,920	Sand	573,379	66
1/18/2012	12,910	13,275	1/19/2012	12,910	13,275	Slk wtr	9,709	Sand	572,590	70
1/19/2012	12,453	12,817	1/20/2012	12,453	12,817	Slk wtr	11,513	Sand	574,717	84
1/20/2012	11,996	12,360	1/20/2012	11,996	12,360	Slk wtr	10,942	Sand	575,837	74
1/20/2012	11,539	11,903	1/21/2012	11,539	11,903	Slk wtr	11,868	Sand	575,272	85
1/21/2012	11,082	11,446	1/22/2012	11,082	11,446	Slk wtr	10,357	Sand	554,563	78
1/22/2012	10,625	10,989	1/23/2012	10,625	10,989	Slk wtr	10,784	Sand	573,500	84
1/23/2012	10,168	10,522	1/23/2012	10,168	10,522	Slk wtr	10,493	Sand	569,333	82
1/23/2012	9,711	10,082	1/24/2012	9,711	10,082	Slk wtr	11,737	Sand	552,196	78
1/24/2012	9,254	9,622	1/24/2012	9,254	9,622	Slk wtr	13,402	Sand	500,775	81
1/24/2012	8,797	9,161	1/25/2012	8,797	9,161	Slk wtr	12,821	Sand	572,098	78
1/25/2012	8,340	8,704	1/25/2012	8,340	8,704	Slk wtr	12,686	Sand	573,046	80
1/25/2012	7,876	8,247	1/26/2012	7,876	8,247	Slk wtr	13,286	Sand	581,176	86

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
SHALE/LS	0	80
SHALE/LS/COAL	80	200
SHALE/LS	200	250
SHALE/SS	250	400
SHALE/LS/COAL	400	450
LS/SS	450	550
SS/SHALE	550	740
SHALE	740	840
LS	840	990
SS/SILT	990	2290
SHALE/SILT/SS	2290	7183
GENESEO	7183	7209
TULLY	7209	7289
HAMILTON	7289	7539
MARCELLUS	7539	7634
ONONDAGA (LS)	7634	
TD OF PILOT HOLE		7774

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/LS	0	0	80	80
SHALE/LS/COAL	80	80	200	200
SHALE/LS	200	200	250	250
SHALE/SS	250	250	400	400
SHALE/COAL	400	400	450	450
LS/SS	450	450	550	550
SS/SHALE	550	550	740	740
SHALE	740	740	840	840
LS	840	840	990	990
SS/SILT	990	990	2290	2290
SHALE/SILT/SS	2290	2290	7188	7179
GENESEO	7188	7179	7220	7210
TULLY	7220	7210	7299	7285
HAMILTON	7299	7285	7680	7528
MARCELLUS	7680	7528		
TD OF LATERAL			13885	7645

WR-35

7/30/2012

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

API # 47-049-02181

Well Operator's Report of Well Work

Farm name: Donna **Operator Well No:** #4H

Location: Elevation: 1,171 Quadrangle: Mannington

District: Lincoln County: Marion

Latitude: 39 ° 34' 27.6"

Longitude: 80 ° 17' 40.8"

Company: Eastern American Energy Corporation
501 56th Street
Charleston, WV 25304

Casing & Tubing	Used in Well	Left in Well	Cement Fill Up Cu. Ft
20"	40'	40'	40 cu ft.
13 3/8"	741'	741'	753 cu ft
9 5/8"	3,957'	3,957'	1,673 cu ft
5 ½"	11,105'	11,105'	1,488 cu ft
2-3/8"	8,204'	8,204'	Tubing head

Agent: Rodney A. Winters

Inspector:

Permit Issued: 9/1/2011
Well work commenced: 10/17/2011
Well work completed: 7/30/2012
Verbal plugging
Permission granted on:
Rotary _X_ Cable ___ Rig
Total Depth (ft): 11,050'
Fresh Water depths (ft): 236'
Salt-water depths (ft):
Is coal being mined in the area? (Y/N): N
Coal depths (ft): 617'

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Open Flow Data
Gas: Initial open flow __715__ MCF/d Oil: Initial open flow ___0___ Bbl/d
Final open flow ___1182___ MCF/d Final open flow ___0____ Bbl/d
Time of open flow between initial and final tests _____1_____ Days
Static rock pressure: ___2170__ psi Surface pressure after __0___ Hours.
1st Producing Formation _Devonian Shale_____ Pay zone depth (ft) 7580-7740'
2nd Producing Formation _____ Pay zone depth (ft) _____
3rd Producing Formation _____ Pay zone depth (ft) _____

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1) DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2) THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

_____, Agent
For: Energy Corporation of America

Rodney A. Winters
By: Designated Agent
Date: August 9, 2012

FORMATION COLOR, HARD OR SOFT	TOP FEET	BOTTOM FEET
Top Fill	0	40
Sand & Shale	40	1150
Maxton	1700	1762
Little Lime	1906	1920
Pencil Cave	1920	1938
Big Lime	1938	2030
Big Injun	2030	2138
50 Foot	2632	2683
0 Foot	2850	2890
Gordon	2923	2988
Fifth	3101	3119
Benson	4696	4708
Alexander	5624	5648
Geneseo	7402	7450
Tully	7450	7490
Hamilton	7490	7533
Upper Marcellus	7533	7618
Cherry Valley	7618	7623
Lower Marcellus	7623	7688
Onondaga	7688	7703

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-15-2012
API #: 47-069-00069

Farm name: Roy Ferrell 8H Operator Well No.: 832804

LOCATION: Elevation: 1210' Quadrangle: Valley Grove WV

District: Triadelphia County: Ohio
Latitude: 8650' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 14610' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	Driven
Agent: Eric Gillespie	13 3/8"	735'	735'	830 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2202'	2202'	976 Cu. Ft.
Date Permit Issued: 12/22/2010	5 1/2"	12950'	12950'	2770 Cu. Ft.
~~Date Well Work Commenced: 2/1/2011~~				
Date Well Work Completed: 8/14/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6703' (cement plug @ 4898' - 6647'				
Total Measured Depth (ft): 12960'				
Fresh Water Depth (ft.): 230', 350'				
Salt Water Depth (ft.): 970', 1179', 1330'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 685'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Macellus Pay zone depth (ft) 7,119' - 12,641'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 2,491* MCF/d Final open flow 61 Bbl/d
Time of open flow between initial and final tests 69 Hours *Calculated
Static rock Pressure 4,343* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, resistivity microresistivity, sonic

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Cement plug@ 4898' - 6647'

Formations Encountered: Top Depth / Bottom Depth
Surface:

(see attached pages)

PERFORATION RECORD ATTACHMENT

Well Name and Number: Roy Ferrell 8H (832804)

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
7/29/2011	12,319	12,641	7/29/2011	12,319	12,641	Slk Wtr	10,384	Sand	481,379	89.0
7/30/2011	11,919	12,241	7/30/2011	11,919	12,241	Slk Wtr	9,963	Sand	480,019	87.0
7/31/2011	11,519	11,841	7/31/2011	11,519	11,841	Slk Wtr	9,483	Sand	479,448	86.0
8/3/2011	11,119	11,441	8/3/2011	11,119	11,441	Slk Wtr	9,816	Sand	485,615	86.0
8/5/2011	10,680	11,041	8/5/2011	10,680	11,041	Slk Wtr	10,603	Sand	485,930	87.0
8/6/2011	10,319	10,641	8/6/2011	10,319	10,641	Slk Wtr	9,715	Sand	479,681	84.0
8/6/2011	9,919	10,241	8/6/2011	9,919	10,241	Slk Wtr	9,241	Sand	481,624	86.0
8/7/2011	9,519	9,841	8/7/2011	9,519	9,841	Slk Wtr	9,142	Sand	484,784	85.0
8/8/2011	9,119	9,441	8/8/2011	9,119	9,441	Slk Wtr	11,856	Sand	485,100	72.0
8/9/2011	8,719	9,041	8/9/2011	8,719	9,041	Slk Wtr	12,551	Sand	480,985	75.0
8/10/2011	8,319	8,641	8/10/2011	8,319	8,641	Slk Wtr	8,121	Sand	484,648	86.0
8/11/2011	7,919	8,241	8/11/2011	7,919	8,241	Slk Wtr	9,011	Sand	482,697	85.0
8/13/2011	7,515	7,837	8/13/2011	7,515	7,837	Slk Wtr	11,800	Sand	487,369	85.0
8/14/2011	7,119	7,441	8/14/2011	7,119	7,441	Slk Wtr	9,198	Sand	483,749	87.0

VERTICAL PILOT HOLE				
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	120	120
SHALE	120	120	270	270
SHALE/SS/LS	270	270	330	330
SHALE	330	330	430	430
SHALE/LS	430	430	685	685
PITTSBURGH COAL	685	685	690	690
SHALE/LS	690	690	740	740
SS	740	740	770	770
SHALE	770	770	970	970
LS	970	970	1010	1010
SHALE	1010	1010	1160	1160
SS	1160	1160	1220	1220
SHALE	1220	1220	1430	1430
SS	1430	1430	1490	1490
SHALE	1490	1490	1566	1566
MAXTON	1566	1566	1640	1640
SHALE	1640	1640	1820	1820
BIG INJUN	1841	1841	2054	2054
SHALE	2054	2054	5974	5974
RHINESTREET SHALE	5974	5974	6370	6370
MIDDLESEX SHALE	6370	6370	6468	6468
GENESEO SHALE	6468	6468	6482	6482
TULLY LIMESTONE	6482	6482	6508	6508
MAHANTANGO SHALE	6508	6508	6628	6628
MARCELLUS SHALE	6628	6628	6685	6685
ONONDAGA LS	6685	6685		
TD OF PILOT HOLE			6700	6700

LATERAL WELLBORE				
Maximum TVD of wellbore:	6703 ft TVD @ 12123 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	120	120
SHALE	120	120	270	270
SHALE/SS/LS	270	270	330	330
SHALE	330	330	430	430
SHALE/LS	430	430	685	685
PITTSBURGH COAL	685	685	690	690
SHALE/LS	690	690	740	740
SS	740	740	770	770
SHALE	770	770	970	970
LS	970	970	1010	1010
SHALE	1010	1010	1160	1160
SS	1160	1160	1220	1220
SHALE	1220	1220	1430	1430
SS	1430	1430	1490	1490
SHALE	1490	1490	1566	1566
MAXTON	1566	1566	1640	1640
SHALE	1640	1640	1820	1820
BIG INJUN	1841	1841	2054	2054
SHALE	2054	2054	5974	5947
RHINESTREET SHALE	5974	5947	6370	6295
MIDDLESEX SHALE	6370	6295	6468	6377
GENESEO SHALE	6574	6455	6607	6479
TULLY LIMESTONE	6607	6479	6654	6510
MAHANTANGO SHALE	6654	6510	6964	6631
MARCELLUS SHALE	6964	6631		
TD OF WELL			12960	6682

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 1-30-2012
API #: 47-069-00080

Farm name: Roy Ferrell 3H Operator Well No.: 833220

LOCATION: Elevation: 1210' Quadrangle: Valley Grove WV

District: Triadelphia County: Ohio
Latitude: 8690' Feet South of 40 Deg. 05 Min. 00 Sec.
Longitude 14640' Feet West of 80 Deg. 30 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	291 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	705'	705'	106 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2251'	2251'	915 Cu. Ft.
Date Permit Issued: 4/27/2011	5 1/2"	15499'	15499'	4356 Cu. Ft.
~~Date Well Work Commenced: 5/16/2011~~				
Date Well Work Completed: 8/15/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6667'				
Total Measured Depth (ft): 15499'				
Fresh Water Depth (ft.): 230' 350'				
Salt Water Depth (ft.): 970', 1179', 1330'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 685'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,897'- 15,354'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,375* MCF/d Final open flow 189 Bbl/d
Time of open flow between initial and final tests 61 Hours *Calculated
Static rock Pressure 4,334* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

Were core samples taken? Yes_____ No_____ Were cuttings caught during drilling? Yes_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Name and Number: Roy Ferrell 3H (833220)

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
7/28/2011	14,972	15,354	7/28/2011	14,972	15,354	Slk Wtr	12,740	Sand	574,499	85.0
7/29/2011	14,497	14,879	7/29/2011	14,497	14,879	Slk Wtr	11,413	Sand	580,216	86.0
7/30/2011	14,022	14,404	7/30/2011	14,022	14,404	Slk Wtr	12,096	Sand	578,683	86.0
7/30/2011	13,547	13,929	7/30/2011	13,547	13,929	Slk Wtr	12,036	Sand	591,513	88.0
7/31/2011	13,072	13,454	7/31/2011	13,072	13,454	Slk Wtr	11,459	Sand	575,830	85.0
7/31/2011	12,597	12,979	7/31/2011	12,597	12,979	Slk Wtr	12,200	Sand	575,942	84.0
8/1/2011	12,122	12,504	8/1/2011	12,122	12,504	Slk Wtr	11,473	Sand	578,633	88.0
8/7/2011	11,608	12,029	8/7/2011	11,608	12,029	Slk Wtr	14,851	Sand	588,568	82.0
8/8/2011	11,172	11,554	8/8/2011	11,172	11,554	Slk Wtr	11,299	Sand	577,922	88.0
8/9/2011	10,697	11,079	8/9/2011	10,697	11,079	Slk Wtr	9,778	Sand	576,933	86.0
8/9/2011	10,222	10,604	8/9/2011	10,222	10,604	Slk Wtr	12,072	Sand	579,540	82.0
8/10/2011	9,747	10,129	8/10/2011	9,747	10,129	Slk Wtr	13,146	Sand	580,682	86.0
8/11/2011	9,272	9,654	8/11/2011	9,272	9,654	Slk Wtr	10,161	Sand	584,043	88.0
8/12/2011	8,797	9,179	8/12/2011	8,797	9,179	Slk Wtr	8,253	Sand	580,441	85.0
8/13/2011	8,322	8,704	8/13/2011	8,322	8,704	Slk Wtr	10,813	Sand	571,197	87.0
8/13/2011	7,847	8,229	8/13/2011	7,847	8,229	Slk Wtr	10,912	Sand	580,502	84.0
8/14/2011	7,372	7,754	8/14/2011	7,372	7,754	Slk Wtr	12,750	Sand	582,512	87.0
8/15/2011	6,897	7,279	8/15/2011	6,897	7,279	Slk Wtr	11,235	Sand	520,905	86.0

LATERAL WELLBORE (no pilot hole associated with this well)				
Maximum TVD of wellbore:	6667 ft TVD @ 7049 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	120	120
SHALE	120	120	270	270
SHALE/SS/LS	270	270	330	330
SHALE	330	330	430	430
SHALE/LS	430	430	685	685
PITTSBURGH COAL	685	685	690	690
SHALE/LS	690	690	740	740
SS	740	740	770	770
SHALE	770	770	970	970
LS	970	970	1010	1010
SHALE	1010	1010	1160	1160
SS	1160	1160	1220	1220
SHALE	1220	1220	1430	1430
SS	1430	1430	1490	1490
SHALE	1490	1490	1566	1566
MAXTON	1566	1566	1640	1640
SHALE	1640	1640	1820	1820
BIG INJUN	1841	1841	2054	2054
SHALE	2054	2054	6350	6334
MIDDLESEX SHALE	6350	6334	6475	6441
GENESEO SHALE	6475	6441	6517	6474
TULLY LIMESTONE	6517	6474	6568	6509
MAHANTANGO SHALE	6568	6509	6803	6623
MARCELLUS SHALE	6803	6623		
TD OF WELL			15499	6544

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-14-2012
API #: 47-069-00078

Farm name: Thelma Hays 3H Operator Well No.: 833117

LOCATION: Elevation: 1250' Quadrangle: Bethany, WV

District: Liberty County: Ohio
Latitude: 3490' Feet South of 40 Deg. 10 Min. 00 Sec.
Longitude 5570' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	353 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	656'	656'	718 Cu. Ft.
Inspector: Bill Hendershot & Joe Taylor	9 5/8"	2074'	2074'	988 Cu. Ft.
Date Permit Issued: 4-12-2011	5 1/2"	11595'	11595'	3003 Cu. Ft.
~~Date Well Work Commenced: 5-23-2011~~				
Date Well Work Completed: 5-15-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6447'(cement plugs @ 5530' & 5709')				
Total Measured Depth (ft): 11600'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): 800'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 590'				
Void(s) encountered (N/Y) Depth(s) Y 590'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,604' - 11,461'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 1,459* MCF/d Final open flow 186 Bbl/d
Time of open flow between initial and final tests 30 Hours *Calculated
Static rock Pressure 4,073* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

Were core samples taken? Yes_____ No N Were cuttings caught during drilling? Yes 7 No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, neutron, density, and resistivity
open hole logs run from 0-6447' MD; LWD GR from 5314-11600' MD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Cement plugs @ 5530' - 5980' & 5709' - 6442'

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833117 ThelmaHays 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
4/13/2012	11,102	11,461	5/10/2012	11,102	11,461	Slk wtr	7,928	Sand	423,760	80
5/11/2012	10,460	11,023	5/12/2012	10,460	11,023	Slk wtr	11,433	Sand	638,680	80
5/12/2012	9,817	10,381	5/13/2012	9,817	10,381	Slk wtr	10,472	Sand	642,540	78
5/14/2012	9,174	9,738	5/14/2012	9,174	9,738	Slk wtr	10,747	Sand	642,240	80
5/14/2012	8,532	9,095	5/14/2012	8,532	9,095	Slk wtr	9,704	Sand	537,640	79
5/14/2012	7,889	8,453	5/15/2012	7,889	8,453	Slk wtr	10,319	Sand	640,080	80
5/15/2012	7,247	7,810	5/15/2012	7,247	7,810	Slk wtr	9,942	Sand	642,071	80
5/15/2012	6,604	7,168	5/15/2012	6,604	7,168	Slk wtr	9,973	Sand	638,840	79

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, TVD/MD (ft)	Bottom Depth, TVD/MD (ft)
LS/SH	0	300
SS/LS	300	589
PITTSBURG COAL	589	595
LS/SH/SS	595	790
SS	790	1510
SH/SS	1510	1620
BIG LIME (LS)	1620	1646
BIG INJUN (SS)	1646	1920
SHALE	1920	6198
GENESEO (SH)	6198	6217
TULLY (LS)	6217	6260
HAMILTON (SH)	6260	6366
MARCELLUS (SH)	6366	6431
ONONDAGA (LS)	6431	
TD OF PILOT HOLE		6447

LATERAL SIDETRACK WELLBORE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
LS/SH	0	0	300	300
SS/LS	300	300	589	589
PITTSBURG COAL	589	589	595	595
LS/SH/SS	595	595	790	790
SS	790	790	1510	1510
SH/SS	1510	1510	1620	1620
BIG LIME (LS)	1620	1620	1646	1646
BIG INJUN (SS)	1646	1646	1920	1920
SHALE	1920	1920	6211	6164
GENESEO (SH)	6211	6164	6238	6166
TULLY (LS)	6238	6166	6294	6229
HAMILTON (SH)	6294	6229	6535	6343
MARCELLUS (SH)	6535	6343		
TD OF LATERAL			11600	6266

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2-3-2012
API #: 47-073-02525

Farm name: Stephen Colvin 1 Operator Well No.: (832515)

LOCATION: Elevation: 1028' Quadrangle: Bens Run

District: Lafayette County: Pleasants
Latitude: ____ Feet South of 39 Deg. 25 Min. 00 Sec.
Longitude ____ Feet West of 81 Deg. 00 Min. 00 Sec.

AUG 8 2012

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	80'	80'	Driven
Agent: Eric Gillespie	13 3/8"	316'	316'	313 Cu. Ft.
Inspector: Joe Taylor	9 5/8"	2020'	2020'	959 Cu. Ft.
Date Permit Issued: 12/14/2010	7"	6426'	6426'	633 Cu. Ft.
~~Date Well Work Commenced: 2/17/2011~~				
Date Well Work Completed: 10/17/2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6,426' (cement plug @ 6,338')				
Total Measured Depth (ft): 6,426'				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,168'-6,170'
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 23* MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests 24 Hours *Calculated
Static rock Pressure 4,177* psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8/7/2012
Date

Were core samples taken? Yes X No_____ Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list resistivity, neutron, density spectral GR, FMI, sonic scanner

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s): Cement Plug Back @ 6,338'

Formations Encountered: Top Depth / Bottom Depth

Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Name and Number: Stephen Colvin 1 (832515)

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
9/1/2011	6,168	6,170	10/17/2011	6,168	6,170	Slk Wtr	1,403	Sand	24,288	28.0

LITHOLOGY	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
SS	0	150
SLTSTN / SS	150	350
SHALE	350	400
SS	400	500
SHALE / SS	500	600
SLTSTN / SS	600	860
LS / SLTSTN	860	1320
SS	1320	1450
SLTSTN / SS	1450	1900
LS / SLTSTN	1900	1950
SLTSTN / SS	1950	2100
SLTSTN	2100	2500
SLTSTN / SS	2500	5370
RHINESTREET	5370	6000
MIDDLESEX	6000	6113
TULLY	6113	6116
MARCELLUS	6116	6175
ONONDAGA	6175	6395
ORISKANY	6395	6426

LITHOLOGY	TOP DEPTH (FT)	BOTTOM DEPTH (FT)
SS	0	150
SLTSTN / SS	150	350
SHALE	350	400
SS	400	500
SHALE / SS	500	600
SLTSTN / SS	600	860
LS / SLTSTN	860	1320
SS	1320	1450
SLTSTN / SS	1450	1900
LS / SLTSTN	1900	1950
SLTSTN / SS	1950	2100
SLTSTN	2100	2500
SLTSTN / SS	2500	5370
RHINESTREET	5370	6000
MIDDLESEX	6000	6113
TULLY	6113	6116
MARCELLUS	6116	6175
ONONDAGA	6175	6395
ORISKANY	6395	6426

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 4-11-2012
API #: 47-051-01308

Farm name: Bonnette 6H Operator Well No.: 831314

LOCATION: Elevation: 1,457' Quadrangle: Wileyville

District: Meade County: Marshall
Latitude: 1,025' Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 13,700' Feet West of 80 Deg. 42 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	80'	80'	Driven
Agent: Eric Gillespie	13 3/8"	1231'	1231'	448 Cu. Ft.
Inspector: Bill Hatfield	9 5/8"	2888'	2888'	1279 Cu. Ft.
Date Permit Issued: 9-18-2009	5 1/2"	11599'	11599'	2799 Cu. Ft.
Date Well Work Commenced: 7-2-2011				
Date Well Work Completed: 7-31-2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7166'				
Total Measured Depth (ft): 11599'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,335'-11,458'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,253* MCF/d Final open flow 76 Bbl/d
Time of open flow between initial and final tests 139 Hours *Calculated
Static rock Pressure 4,654* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8/3/2012
Date

Were core samples taken? Yes_____ No_____ Were cuttings caught during drilling? Yes_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See Attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: Bonnette 6H 831314

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
5/13/2012	11076	11458	5/13/2012	11076	11458	Slk wtr	9923	Sand	462220	76
5/13/2012	10380	10924	5/13/2012	10380	10924	Slk wtr	10358	Sand	594540	83
5/14/2012	9718	10324	5/14/2012	9718	10324	Slk wtr	10119	Sand	594480	80
5/14/2012	9112	9659	5/14/2012	9112	9659	Slk wtr	10616	Sand	594720	85
5/16/2012	8506	9053	5/16/2012	8506	9053	Slk wtr	11121	Sand	575968	81
5/17/2012	7900	8447	5/17/2012	7900	8447	Slk wtr	10852	Sand	596160	84
5/17/2012	7335	7841	5/17/2012	7335	7841	Slk wtr	9897	Sand	595700	85

HORIZONTAL WELL (No pilot hole associated with this pad)				
Maximum TVD of wellbore:	7166 ft TVD @ 11599 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SHALE/SS	0	0	36	36
SHALE	36	36	130	130
SHALE/LS	130	130	200	200
LS/SHALE	200	200	340	340
SHALE/LS	340	340	434	434
SHALE/SS	434	434	470	470
LS/SS	470	470	548	548
SHALE/SS	548	548	600	600
SS/LS	600	600	650	650
SS/SHALE	650	650	697	697
SHALE/SS	697	697	800	800
SS	800	800	850	850
SS/SHALE	850	850	900	900
SS	900	900	950	950
SS/LS	950	950	1006	1006
LS/SHALE	1006	1006	1070	1070
LS	1070	1070	1080	1080
LS/SHALE	1080	1080	1100	1100
COAL	1100	1100	1108	1108
LS/SHALE	1108	1108	1238	1238
LS	1238	1238	1330	1330
LS/SS	1330	1330	1400	1400
LS/SS	1400	1400	1500	1500
SHALE/SS	1500	1500	1550	1550
SS/SHALE	1550	1550	1626	1626
SHALE/SS	1626	1626	1650	1650
LS/SHALE	1650	1650	1716	1716
LS/SS	1716	1716	1740	1740
SS/LS	1740	1740	1750	1750
SS/SHALE	1750	1750	1794	1794
SS	1794	1794	1812	1812
SS/SHALE	1812	1812	2000	2000
LS/SHALE	2000	2000	2052	2052
SHALE/SS	2052	2052	2100	2100
SS/SHALE	2100	2100	2200	2200
SHALE/SS	2200	2200	2250	2250
LS/SHALE	2250	2250	2350	2350
LS/SS	2350	2350	2405	2405
SS/SHALE	2405	2405	2466	2466
SS	2466	2466	2530	2530

SS/SHALE	2530	2530	2560	2560
SS/LS	2560	2560	2572	2572
SS/SHALE	2572	2572	2620	2620
SHALE/LS	2620	2620	6604	6603
SHALE/LS	6604	6603	6642	6641
LS/SHALE	6642	6641	6704	6703
SHALE	6704	6703	6750	6747
LS/SHALE	6750	6747	6850	6838
SHALE	6850	6838	6900	6884
LS/SHALE	6900	6884	7011	6962
Tully	7011	6962	7059	6992
Hamilton	7059	6992	7236	7066
Marcellus	7236	7066	7291	7080
Purcell	7291	7080	7306	7083
LS/SHALE	7306	7083	7600	7094
SHALE/LS	7600	7094	8106	7108
SHALE	8106	7108	8300	7112
SHALE/LS	8300	7112		
End of Well			11599	7166

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-15-2012
API #: 47-051-01458

Farm name: Fork Ridge MSH 5H Operator Well No.: 833095

LOCATION: Elevation: 1391' Quadrangle: Glen Easton

District: Cameron County: Marshall
Latitude: 3808 Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude 1223 Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	95 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	996'	996'	1016 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2524'	2524'	1134 Cu. Ft.
Date Permit Issued: 5-17-2011	5 1/2"	12368'	12368'	2891 Cu. Ft.
Date Well Work Commenced: 7-17-2011				
Date Well Work Completed: 4-12-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6827'				
Total Measured Depth (ft): 12379'				
Fresh Water Depth (ft.): 120'				
Salt Water Depth (ft.): 1660'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 960'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,403' - 12,241'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,524* MCF/d Final open flow 41 Bbl/d
Time of open flow between initial and final tests 64 Hours *Calculated
Static rock Pressure 4,419* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR, density, neutron, resisitivity to 2550'; LWD GR from 6300' to TD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attachment)

~~Plug Back Details Including Plug Type and Depth(s):~~

Formations Encountered: Top Depth / Bottom Depth
Surface:

(see attachment)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833095 Fork Ridge MSH 5H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					Fluid		Propping Agent		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
3/13/2012	11,818	12,241	4/2/2012	11,818	12,241	Slk wtr	9,831	Sand	490,620	77
4/2/2012	11,292	11,750	4/3/2012	11,292	11,750	Slk wtr	14,176	Sand	494,220	85
4/9/2012	10,836	11,259	4/9/2012	10,836	11,259	Slk wtr	9,854	Sand	490,440	84
4/10/2012	10,345	10,768	4/10/2012	10,345	10,768	Slk wtr	8,650	Sand	491,680	86
4/10/2012	9,860	10,277	4/10/2012	9,860	10,277	Slk wtr	9,655	Sand	490,460	82
4/10/2012	9,364	9,786	4/10/2012	9,364	9,786	Slk wtr	9,685	Sand	489,860	85
4/10/2012	8,873	9,299	4/11/2012	8,873	9,299	Slk wtr	10,073	Sand	490,400	82
4/11/2012	8,382	8,804	4/11/2012	8,382	8,804	Slk wtr	9,455	Sand	490,460	85
4/11/2012	7,891	8,313	4/11/2012	7,891	8,313	Slk wtr	9,931	Sand	489,880	81
4/12/2012	7,403	7,826	4/12/2012	7,403	7,826	Slk wtr	10,191	Sand	491,760	82

HORIZONTAL WELL (No pilot hole associated with this pad)				
Maximum TVD of wellbore:	6827 ft TVD @ 8214 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS and LS	0	0	170	170
SS and minor LS	170	170	280	280
SH and minor SS	280	280	310	310
SS and LS	310	310	420	420
SS and minor LS	420	420	490	490
SH and SS	490	490	610	610
SS	610	610	730	730
SS and minor LS	730	730	790	790
SS and LS	790	790	840	840
LS and minor SS	840	840	880	880
LS	880	880	960	960
Pittsburgh Coal	960	960	1000	1000
SS	1000	1000	1036	1036
SS and minor LS	1036	1036	1060	1060
SS and minor SILTSTN	1060	1060	1150	1150
SS	1150	1150	1860	1860
Maxton	1787	1787	1802	1802
SS	1802	1802	1860	1860
SS and minor LS	1860	1860	1880	1880
SS	1880	1880	2011	2011
Big Lime	2011	2011	2020	2020
SS and LS	2020	2020	2044	2044
Big Injun	2044	2044	2050	2050
SS	2050	2050	2430	2430
SH	2430	2430	6840	6574
Middlesex	6840	6574	6953	6655
Geneseo	6953	6655	6984	6666
Tully	6984	6666	7028	6700
Hamilton	7028	6700	7340	6799
Marcellus	7340	6800		
End of Well			12379	6798

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-15-2012
API #: 47-051-01457

Farm name: Fork Ridge MSH 10H Operator Well No.: 833096

LOCATION: Elevation: 1,391' Quadrangle: Glen Easton

District: Cameron County: Marshall
Latitude: 3797' Feet South of 39 Deg. 52 Min. 30 Sec.
Longitude 5769' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	90'	90'	Driven
Agent: Eric Gillespie	13 3/8"	1012'	1012'	1094 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2579'	2579'	1324 Cu. Ft.
Date Permit Issued: 5-20-2011	5 1/2"	12862'	12862'	3039 Cu. Ft.
Date Well Work Commenced: 8-8-2011				
Date Well Work Completed: 4-13-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6870'				
Total Measured Depth (ft): 12862'				
Fresh Water Depth (ft.): 120'				
Salt Water Depth (ft.): 1660'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 960'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,625' - 12,727'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow 3,225* MCF/d Final open flow 56 Bbl/d
Time of open flow between initial and final tests 57 Hours *Calculated
Static rock Pressure 4,466* psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-15-2012
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list LWD gamma ray from 6250' MD to TD.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

~~Plug Back Details Including Plug Type and Depth(s):~~

Formations Encountered: Top Depth / Bottom Depth
Surface:

(see attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 833096 Fork Ridge MSH 10H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					Fluid		Propping Agent		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
3/13/2012	12,171	12,727	4/2/2012	12,171	12,727	Slk wtr	13,576	Sand	599,600	82
4/3/2012	11,523	12,078	4/3/2012	11,523	12,078	Slk wtr	12,289	Sand	664,970	84
4/3/2012	10,874	11,430	4/3/2012	10,874	11,430	Slk wtr	13,284	Sand	664,840	83
4/4/2012	10,225	10,781	4/4/2012	10,225	10,781	Slk wtr	11,030	Sand	664,980	83
4/4/2012	9,576	10,129	4/4/2012	9,576	10,129	Slk wtr	12,045	Sand	664,780	85
4/4/2012	8,928	9,483	4/5/2012	8,928	9,483	Slk wtr	11,232	Sand	665,440	84
4/5/2012	8,279	8,834	4/12/2012	8,279	8,834	Slk wtr	12,075	Sand	664,560	85
4/12/2012	7,625	8,185	4/13/2012	7,625	8,185	Slk wtr	12,289	Sand	659,620	84

LATERAL WELLBORE (no vertical pilot hole associated with this well)				
Maximum TVD of wellbore:	6870 ft TVD @ 12862 ft MD			
Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS and LS	0	0	170	170
SS and minor LS	170	170	280	280
SH and minor SS	280	280	310	310
SS and LS	310	310	420	420
SS and minor LS	420	420	490	490
SH and SS	490	490	610	610
SS	610	610	730	730
SS and minor LS	730	730	790	790
SS and LS	790	790	840	840
LS and minor SS	840	840	880	880
LS	880	880	960	960
Pittsburgh Coal	960	960	1000	1000
SS	1000	1000	1036	1036
SS and minor LS	1036	1036	1060	1060
SS and minor SILTSTN	1060	1060	1150	1150
SS	1150	1150	1860	1860
SS and minor LS	1860	1860	1880	1880
SS	1880	1880	2020	2020
SS and LS	2020	2020	2050	2050
SS	2050	2050	2430	2430
SH	2430	2430	6921	6550
Middlesex	6921	6550	7053	6637
Geneseo	7053	6637	7090	6656
LS and SH	7090	6656	7105	6666
Tully	7105	6666	7180	6700
SH	7180	6700	7463	6802
Marcellus	7463	6802		
End of Well			12862	6870

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2012-11-29
API #: 47-9101227

Farm name: Charles H. Cather et al Operator Well No.: 513055

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.30096 Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude -80.16334 Feet West of West Deg. ____ Min. ____ Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	
Agent: Cecil Ray	13 3/8	1,040	1,040	912
Inspector: Brian Harris	9 5/8	2,830	2,830	1,094.8
Date Permit Issued: 2011-02-24	5 1/2	12,147	12,147	1,438.8
Date Well Work Commenced: 2011-06-30				
Date Well Work Completed: 2012-02-27				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,440 ft				
Total Measured Depth (ft): 12,171 ft				
Fresh Water Depth (ft.): 55, 542 ft				
Salt Water Depth (ft.): 1,878 ft				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 450, 470, 685				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 3,440 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure 2,416 psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

2012-11-29
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s): Isolation Plug (126 sacks of Class A at .99 ft/sack) Top 6,147ft / Bottom 6,447 ft

Kick off plug (145 sacks of Standard Cement at 1.15 ft/sack) Top 2,830 ft/Bottom 3,230ft

Formations Encountered: Top Depth / Bottom Depth

Surface:

Fill 0 / 28 - - Sand 28 / 32 - - Fill 32 / 78 - - Redrock 78 / 83 - - Fill/Clay 83 / 107 - - Redrock 107 / 113 - - Fill/Clay 113 / 169 - - Sand 169 / 190 - - sand/Shale 190 / 450 - - Coal 450 / 460 - - Sand/Shale 460 / 470 - - Coal 470 / 480 - - Gray Shale 480 / 685 - - Coal 685 / 700 - - Sandstone 700 / 892 - - Sand 892 / 905 - - Sandstone 905 / 950 - - Sand 950 / 955 - - Sandstone 955 / 1,070.00 - - Sand 1,070.00 / 1,078.00 - - Sandstone 1,078.00 / 1,094.00 - - Sand 1,094.00 / 1,112.00 - - Sandstone 1,112.00 / 1,134.00 - - Sand 1,134.00 / 1,140.00 - - Sandstone 1,140.00 / 1,166.00 - - Sand 1,166.00 / 1,180.00 - - Sandstone 1,180.00 / 1,207.00 - - Sand 1,217.00 / 1,228.00 - - Sandstone 1,228.00 / 1,320.48 - - Big Lime 1,320 / 1,424.65 -- Big Injun 1,424.65 / 1,577.04 -- Weir Sand 1,577.04 / 1,810 Gantz 1,810 / 1,879.22 -- Fifty Foot 1,879.22 / 1,949.82 -- -Thirty Foot 1,949.82 / 2,008.36 Gordon 2,008.36 / 2,128.03 -- -Fourth Sand 2,128.03 / 2,343.85 -- Fifth Sand 2,343.85 / 2,371.67 Bayard 2,371.67 / 2,783.3 -- -B-5 2,783.3 / 3,001.61 -- -Speechley 3,001.61 / 3,332.79 Riley 3,717.32 / 4,346.2 -- -Benson 4,346.2 / 4,704.67 -- Elk 4,704.67 / 6,572.83 □ Sonyea 6,572.83 / 6,901.42 -- Middlesex 6,901.42 / 7,036.62 -- Genesee 7,036.62 / 7,296.36 Geneseo 7,296.36 / 7,316.42 -- Tully 7,316.42 / 7,369.64 -- Hamilton 7,369.64 / 7,502.25 □ Marcellus / 7,502.25 -- Purcell / 7,566.8 -- Cherry Valley / 7,643.08

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
1	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/10/2012	11852 - 12092		7,946.00	8,454.00	5 Min: 4401
					10 Min: 4268
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4250
85.50	8,856.00	5,091.00	1.12		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,172.00	10,183.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/10/2012	11550 - 11792		7,359.00	8,375.00	5 Min: 4587
					10 Min: 4311
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4172
92.70	8,958.00	5,363.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,251.00	9,108.00		1,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/10/2012	10950 - 11190		8,056.00	8,364.00	5 Min: 4865
					10 Min: 4585
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4447
93.30	8,780.00	5,530.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
801,642.00	9,535.00				

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
4	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/10/2012	10950 - 11190		7,566.00	8,299.00	5 Min: 4979
					10 Min: 4606
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4461
96.70	8,733.00	5,524.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
398,242.00	10,019.00		1,000.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/11/2012	10650 - 10892		7,261.00	8,334.00	5 Min: 4906
					10 Min: 4628
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4485
94.00	8,640.00	5,605.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
403,271.00	10,010.00		1,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/11/2012	10350 - 10592		7,404.00	8,230.00	5 Min: 5144
					10 Min: 4788
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4581
94.40	8,570.00	5,424.00	1.16		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
405,533.00	9,436.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
7	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/12/2012	10050 - 10290		7,332.00	8,191.00	5 Min: 4853
					10 Min: 4512
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4344
88.30	8,943.00	5,499.00	1.16		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
408,550.00	11,822.00		1,000.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/12/2012	9750 - 9992		7,839.00	8,266.00	5 Min: 5119
					10 Min: 4749
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4530
95.10	8,912.00	5,603.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
405,170.00	9,880.00		1,000.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/12/2012	9450 - 9692		7,872.00	8,133.00	5 Min: 5049
					10 Min: 4648
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4392
98.40	8,383.00	5,411.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
395,022.00	9,943.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
10	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/12/2012	9150 - 9390		7,475.00	8,045.00	5 Min: 5048
					10 Min: 4673
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4455
99.70	8,418.00	5,647.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
397,469.00	9,828.00		1,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/13/2012	8850 - 9090		6,828.00	7,759.00	5 Min: 4771
					10 Min: 4463
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4306
97.80	8,356.00	5,338.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
777,382.00	9,704.00		1,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/13/2012	8550 - 8792		6,835.00	8,002.00	5 Min: 5088
					10 Min: 4845
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4696
95.60	8,962.00	6,035.00	1.23		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,740.00	10,187.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
13	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/13/2012	8250 - 8492		6,399.00	7,617.00	5 Min: 4193
					10 Min: 4081
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4010
94.00	8,116.00	4,575.00	1.04		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,820.00	9,807.00		1,000.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Water			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/13/2012	7950 - 8190		6,747.00	6,903.00	5 Min: 4227
					10 Min: 4061
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3980
100.20	8,541.00	4,951.00	1.09		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,543.00	9,801.00		1,000.00		

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2012-11-29
API #: 47-9101226

Farm name: Charles H. Cather et al Operator Well No.: 513054

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.30348 Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude -80.15786 Feet West of West Deg. ____ Min. ____ Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	134.52
Agent: Cecil Ray	13 3/8	1,056	1,056	912
Inspector: Brian Harris	9 5/8	2,955	2,955	1094.8
Date Permit Issued: 2011-02-24	5 1/2	12,023.68	12,023.68	1,429.5
Date Well Work Commenced: 2011-06-16				
Date Well Work Completed: 2012-03-01				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,467.38				
Total Measured Depth (ft): 12,037				
Fresh Water Depth (ft.): 55, 542 ft				
Salt Water Depth (ft.): 1,878 ft				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 150, 331 , 470, 524, 605				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft)____
Gas: Initial open flow____MCF/d Oil: Initial open flow____Bbl/d
Final open flow 3,280 MCF/d Final open flow ____Bbl/d
Time of open flow between initial and final tests____Hours
Static rock Pressure 2,736 psig (surface pressure) after ____Hours

Second producing formation____ Pay zone depth (ft)____
Gas: Initial open flow____MCF/d Oil: Initial open flow____Bbl/d
Final open flow____MCF/d Final open flow ____Bbl/d
Time of open flow between initial and final tests____Hours
Static rock Pressure____psig (surface pressure) after ____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

2012-11-29
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Fill 0/74 -- Red Rock 78/84 -- Fill/Clay 84/107 -- Red Rock 107/110 -- Fill 110/150-- Coal 150/153 -- Fill 153/169

Red Rock 169/174 -- Sand/Shale 174/331-- Coal 331/336 -- Rosedale Gas Sand 336/524 -- Coal 524/530

Black Shale 530/605 -- Coal 605/610 -- Gray Shale 610/955 -- Red Sandstone 955/1320

Big Lime 1,320 / 1,424.65 -- Big Injun 1,424.65 / 1,577.04 -- Weir Sand 1,577.04 / 1,810

Gantz 1,810 / 1,879.22 -- Fifty Foot 1,879.22 / 1,949.82 -- -Thirty Foot 1,949.82 / 2,008.36

Gordon 2,008.36 / 2,128.03 -- -Fourth Sand 2,128.03 / 2,343.85 -- Fifth Sand 2,343.85 / 2,371.67

Bayard 2,371.67 / 2,783.3 -- -B-5 2,783.3 / 3,001.61 -- -Speechley 3,001.61 / 3,332.79

Riley 3,717.32 / 4,346.2 -- -Benson 4,346.2 / 4,704.67 -- Elk 4,704.67 / 6,572.83 □

Sonyea 6,572.83 / 6,901.42 -- Middlesex 6,901.42 / 7,036.62 -- Genesee 7,036.62 / 7,296.36

Geneseo 7,296.36 / 7,316.42 -- Tully 7,316.42 / 7,369.64 -- Hamilton 7,369.64 / 7,502.25 □

Marcellus / 7,502.25 -- Purcell / 7,566.8 -- Cherry Valley / 7,643.08

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/26/2011	11717 - 11959		6,551.00	7,840.00	5 Min: 5116
					10 Min: 4464
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4431
93.00	8,692.00	6,103.00	1.25		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,200.00	11,233.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/27/2011	11417 - 11659		8,313.00	8,246.00	5 Min: 4535
					10 Min: 4297
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4169
90.51	9,206.00	5,346.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,063.00	10,649.00		2,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/27/2011	11117 - 11359		8,213.00	8,012.00	5 Min: 4424
					10 Min: 4142
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3944
97.15	9,166.00	5,853.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
398,531.00	10,193.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/27/2011	10817 - 11059		7,383.00	8,098.00	5 Min: 4896
					10 Min: 4523
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4311
94.00	8,871.00	6,060.00	1.24		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
393,777.00	10,132.00		2,000.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/27/2011	10517 - 10759		7,385.00	7,979.00	5 Min: 5070
					10 Min: 4603
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4361
96.00	8,871.00	5,511.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,670.00	9,992.00		2,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/28/2011	10217 - 10459		7,930.00	7,955.00	5 Min: 4581
					10 Min: 4314
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4175
97.90	9,027.00	5,325.00	1.14		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,730.00	10,115.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/5/2011	9917 - 10159		7,841.00	7,722.00	5 Min: 5408
					10 Min: 5122
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4906
99.60	8,323.00	5,808.00	1.2		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,591.00	10,068.00		2,000.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2011	9617 - 9859		7,839.00	7,860.00	5 Min: 5485
					10 Min: 5147
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4884
100.90	9,335.00	5,938.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
410,001.00	10,829.00		2,000.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2011	9317 - 9559		6,353.00	7,315.00	5 Min: 5444
					10 Min: 4988
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4719
104.00	7,689.00	6,088.00	1.24		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
407,707.00	10,338.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2011	9017 - 9259		7,319.00	7,589.00	5 Min:
					10 Min:
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min:
101.00	8,880.00	5,862.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
398,520.00	9,966.00		2,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2011	8717 - 8988		6,156.00	7,607.00	5 Min:
					10 Min:
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min:
100.50	7,998.00	4,390.00	1.01		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,949.00			2,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/6/2011	8419 - 8657		6,156.00	7,898.00	5 Min: 0
					10 Min: 0
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 0
97.80	9,744.00	7,650.00	0		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
365,608.00	9,473.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2011	8117 - 8359		5,980.00	7,806.00	5 Min: 3754
					10 Min: 3543
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3389
100.00	8,826.00	4,675.00	1.05		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,450.00	10,583.00		2,000.00		
Stage	**Formation**	**Frac Type**			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/7/2011	7817 - 8059		5,868.00	7,998.00	5 Min: 3538
					10 Min: 3338
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3200
91.70	9,112.00	4,316.00	1.06		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
399,535.00	11,514.00		2,000.00		

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2012-11-29
API #: 47-9101225

Farm name: Charles H. Cather et al Operator Well No.: 513052

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.30322 Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude -80.16089 Feet West of West Deg. ____ Min. ____ Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	0
Agent: Cecil Ray	13 3/8	1,060	1,060	912
Inspector: Brian Harris	9 5/8	2,830	2,830	1,130.5
Date Permit Issued: 2011-02-24	5 1/2	11,993	11,993	1387.1
Date Well Work Commenced: 2011-06-01				
Date Well Work Completed: 2012-03-05				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,437.27				
Total Measured Depth (ft): 11,993				
Fresh Water Depth (ft.): 55, 542 ft				
Salt Water Depth (ft.): 1,878				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 150, 331 , 470, 524, 605				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 2,980 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure 2,672 psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

2012-11-29
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Fill 0/74 -- Red Rock 78/84 -- Fill/Clay 84/107 -- Red Rock 107/110 -- Fill 110/150-- Coal 150/153 -- Fill 153/169

Red Rock 169/174 -- Sand/Shale 174/331-- Coal 331/336 -- Rosedale Gas Sand 336/524 -- Coal 524/530

Black Shale 530/605 -- Coal 605/610 -- Gray Shale 610/955 -- Red Sandstone 955/1320

Big Lime 1,320 / 1,424.65 -- Big Injun 1,424.65 / 1,577.04 -- Weir Sand 1,577.04 / 1,810

Gantz 1,810 / 1,879.22 -- Fifty Foot 1,879.22 / 1,949.82 -- -Thirty Foot 1,949.82 / 2,008.36

Gordon 2,008.36 / 2,128.03 -- -Fourth Sand 2,128.03 / 2,343.85 -- Fifth Sand 2,343.85 / 2,371.67

Bayard 2,371.67 / 2,783.3 -- -B-5 2,783.3 / 3,001.61 -- -Speechley 3,001.61 / 3,332.79

Riley 3,717.32 / 4,346.2 -- -Benson 4,346.2 / 4,704.67 -- Elk 4,704.67 / 6,572.83 □

Sonyea 6,572.83 / 6,901.42 -- Middlesex 6,901.42 / 7,036.62 -- Genesee 7,036.62 / 7,296.36

Geneseo 7,296.36 / 7,316.42 -- Tully 7,316.42 / 7,369.64 -- Hamilton 7,369.64 / 7,502.25 □

Marcellus / 7,502.25 -- Purcell / 7,566.8 -- Cherry Valley / 7,643.08

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/29/2011	11647 - 11889		7,752.00	8,282.00	5 Min: 4307
					10 Min: 4145
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4045
85.30	9,089.00	5,212.00	1.13		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
467,530.00	10,959.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
8/29/2011	11347 - 11589		8,560.00	8,146.00	5 Min: 5687
					10 Min: 5173
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4843
96.80	9,221.00	6,416.00	1.29		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
435,700.00	10,780.00		2,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
12/29/2011	11047 - 11289		7,365.00	7,972.00	5 Min: 5138
					10 Min: 4713
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4478
97.40	8,685.00	6,138.00	1.25		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
409,807.00	10,006.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
12/29/2011	10747 - 10989		6,493.00	7,843.00	5 Min: 4798
					10 Min: 4474
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4290
96.20	9,154.00	5,531.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
373,433.00	9,543.00		1,000.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
12/29/2011	10447 - 10689		6,749.00	7,883.00	5 Min: 4941
					10 Min: 4667
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4513
91.50	9,120.00	5,783.00	1.2		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
324,532.00	9,175.00		1,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/2/2012	10147 - 10389		6,599.00	7,764.00	5 Min: 5004
					10 Min: 4758
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4604
82.60	8,511.00	5,562.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,678.00	10,232.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/3/2012	9847 - 10089		7,981.00	8,132.00	5 Min: 5379
					10 Min: 5289
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4844
95.80	9,027.00	5,985.00	1.23		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
400,903.00	11,347.00		1,000.00		

Stage	Formation	Frac Type			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/3/2012	9547 - 9789		6,670.00	8,037.00	5 Min: 5425
					10 Min: 5185
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4922
96.90	8,872.00	5,636.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
397,911.00	9,887.00		1,000.00		

Stage	Formation	Frac Type			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/4/2012	9247 - 9489		6,814.00	8,172.00	5 Min: 5109
					10 Min: 4774
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4560
98.90	8,773.00	5,907.00	1.22		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
402,875.00	10,380.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/4/2012	8947 - 9189		6,314.00	7,938.00	5 Min: 5393
					10 Min: 5117
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4951
96.50	8,532.00	6,001.00	1.23		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,884.00	9,985.00		1,000.00		

Stage	Formation	Frac Type			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/5/2012	8647 - 8889		6,996.00	7,784.00	5 Min: 5087
					10 Min: 4776
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4586
100.10	8,631.00	5,884.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
383,231.00	9,739.00		1,000.00		

Stage	Formation	Frac Type			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/5/2012	8347 - 8589		7,736.00	7,925.00	5 Min: 5005
					10 Min: 4736
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4566
97.80	8,426.00	5,557.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
404,084.00	11,041.00		1,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/5/2012	8047 - 8289		6,742.00	7,392.00	5 Min: 5247
					10 Min: 4900
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4692
99.40	8,469.00	5,922.00	1.21		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
401,881.00	9,937.00		1,000.00		

Stage	Formation	Frac Type			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
1/6/2012	7747 - 7989		6,098.00	7,627.00	5 Min: 4703
					10 Min: 4425
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4229
97.90	8,941.00	5,717.00	1.19		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
381,166.00	9,448.00		1,000.00		

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/2012
API #: 47-033-05596

Farm name: Williams, Betty Ann Operator Well No.: Andrews Unit 1H

LOCATION: Elevation: 1215' Quadrangle: Wolf Summit

District: Tenmile County: Harrison
Latitude: 3,395 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8,860 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	67'	67'	64 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	502'	502'	697 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2587'	2587'	1053 Cu. Ft. Class A
Date Permit Issued: 5/17/2012	5-1/2" 20#	14,552'	14,552'	3576 Cu. Ft. Class H
Date Well Work Commenced: 5/19/2012				
Date Well Work Completed: 9/9/2012	2-3/8" 4.7#	7058'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,065' TVD				
Total Measured Depth (ft): 14,552' MD				
Fresh Water Depth (ft.): 136', 207', 297'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 116', 196', 221'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,940' TVD (Top)
Gas: Initial open flow --- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 11,758 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after --- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Lisa Bothnelei
Signature

11/20/12
Date

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Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post East Unit 5H API# 47-033-05580). Please reference wireline logs submitted with Form WR-35 for Post East Unit 5H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7099'-14,487' MD (1596 holes)

Frac'd w/ 13,986 gals 15% HCL Acid, 158,343 bbls Slick Water carrying 776,059# 100 mesh, 2,936,779# 40/70 and 1,765,469# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth /	Bottom Depth
Big Lime (est.)	1,586'	2,120'
Fifty Foot Sand (est.)	2,121'	2,247'
Gordon (est.)	2,248'	2,532'
Fifth Sandstone (est.)	2,533'	2,583'
Bayard (est.)	2,584'	3,239'
Speechley (est.)	3,240'	3,467'
Balltown (est.)	3,468'	4,001'
Bradford (est.)	4,002'	4,578'
Benson (est.)	4,579'	4,871'
Alexander (est.)	4,872'	5,100'
Elk (est.)	5,101'	5,628'
Rhinestreet (est.)	5,629'	6,297'
Sycamore (est.)	6,298'	6,554'
Middlesex	6,555'	6,558'
Sonyea	6,559'	6,630'
West River Shale	6,631'	6,683'
Genundewa	6,684'	6,720'
Burket	6,721'	6,746'
Tully	6,747'	6,939'
Marcellus	6,940'	7,065' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/2012
API #: 47-033-05601

Farm name: Williams, Betty Ann Operator Well No.: Andrews Unit 2H

LOCATION: Elevation: 1215' Quadrangle: Wolf Summit

District: Tenmile County: Harrison
Latitude: 3,386 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8,856 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	64 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	334'	334'	464 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2583'	2583'	1052 Cu. Ft. Class A
Date Permit Issued: 5/15/2012	5-1/2" 20#	14,935'	14,935'	3683 Cu. Ft. Class H
Date Well Work Commenced: 6/18/2012				
Date Well Work Completed: 9/15/2012	2-3/8" 4.7#	7208'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,109' TVD				
Total Measured Depth (ft): 14,939' MD, 7,050' TVD (BHL)				
Fresh Water Depth (ft.): 110', 133', 176'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 116', 196', 221'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,956' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 14,257 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Lisa B Finelli
Signature

11/20/12
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post East Unit 5H API# 47-033-05580). Please reference wireline logs submitted with Form WR-35 for Post East Unit 5H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7265'-14,870' MD (1596 holes)

Frac'd w/ 14,070 gals 15% HCL Acid, 161,610 bbls Slick Water carrying 781,944# 100 mesh,

2,945,528# 40/70 and 1,817,224# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime (est.)	1,586'		2,120'
Fifty Foot Sand (est.)	2,121'		2,247'
Gordon (est.)	2,248'		2,532'
Fifth Sandstone (est.)	2,533'		2,583'
Bayard (est.)	2,584'		3,239'
Speechley (est.)	3,240'		3,467'
Balltown (est.)	3,468'		4,001'
Bradford (est.)	4,002'		4,578'
Benson (est.)	4,579'		4,871'
Alexander (est.)	4,872'		5,100'
Elk (est.)	5,101'		5,628'
Rhinestreet (est.)	5,629'		6,297'
Sycamore (est.)	6,298'		6,559'
Middlesex	6,560'		6,558'
Sonyea	6,559'		6,630'
West River Shale	6,631'		6,684'
Genundewa	6,685'		6,723'
Burket	6,724'		6,749'
Tully	6,750'		6,955'
Marcellus	6,956'		7,109' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/2012
API #: 47-033-05588

Farm name: Williams, Betty Ann Operator Well No.: Charles Unit 1H

LOCATION: Elevation: 1215' Quadrangle: Wolf Summit

District: Tenmile County: Harrison
Latitude: 3,404 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8,862 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	511'	511'	710 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2578'	2578'	1050 Cu. Ft. Class A
~~Date Permit Issued: 1/23/2012~~	5-1/2" 20#	~~14,940'~~	14,940'	3686 Cu. Ft. Class H
Date Well Work Commenced: 3/4/2012				
Date Well Work Completed: 8/30/2012	2-3/8" 4.7#	7448'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,091' TVD				
Total Measured Depth (ft): 14,940' MD, 6,997' TVD (BHL)				
Fresh Water Depth (ft.): 20', 23', 40', 45', 50'				
Salt Water Depth (ft.): 1,510'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 116', 196', 221'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7,016' TVD (Top)
Gas: Initial open flow — MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 12,754 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after — Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

Lisa Bottinelli
Signature

11/20/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post East Unit 5H API# 47-033-05580). Please reference wireline logs submitted with Form WR-35 for Post East Unit 5H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 8127'-14,874' MD (1416 holes)

Frac'd w/ 10,584 gals 15% HCL Acid, 142,023 bbls Slick Water carrying 779,481# 100 mesh,

2,699,465# 40/70 and 1,672,304# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime (est.)	1,586'		2,120'
Fifty Foot Sand (est.)	2,121'		2,247'
Gordon (est.)	2,248'		2,532'
Fifth Sandstone (est.)	2,533'		2,583'
Bayard (est.)	2,584'		3,239'
Speechley (est.)	3,240'		3,467'
Balltown (est.)	3,468'		4,001'
Bradford (est.)	4,002'		4,578'
Benson (est.)	4,579'		4,871'
Alexander (est.)	4,872'		5,100'
Elk (est.)	5,101'		5,628'
Rhinestreet (est.)	5,629'		6,297'
Sycamore (est.)	6,298'		6,536'
Middlesex	6,537'		6,606'
West River Shale	6,607'		6,666'
Genundewa	6,667'		6,696'
Burket	6,697'		6,735'
Tully	6,736'		7,015'
Marcellus	7,016'		7,091' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/20/12
API #: 47-033-05450
**UPDATED

Farm name: I.L. Morris & Mike Ross, Inc. Operator Well No.: Reynolds Unit 2H

LOCATION: Elevation: 1169' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 3603' Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 10,926' Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corp.

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 55#	496'	496'	689 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2529'	2529'	1030 Cu. Ft. Class A
Date Permit Issued: 7/22/2010	5-1/2" 20#	14,096'	14,096'	3470 Cu. Ft. Class H
Date Well Work Commenced: 12/22/2010				
Date Well Work Completed: 5/09/2011	2-3/8" 4.7#	7131'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7063' TVD				
Total Measured Depth (ft): 14,109' MD, 6892' TVD (BHL)				
Fresh Water Depth (ft.): 90'				
Salt Water Depth (ft.): est. 1123', 1963'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): **Deepest known coal seam mined at surface**				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 7025' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow ---- Bbl/d
Final open flow 10,716 MCF/d Final open flow ---- Bbl/d
Time of open flow between initial and final tests ---- Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

Lisa Bottinelli
Signature

11/20/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes, CBL.

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Reynolds Unit 1H API# 47-033-05450). Please reference wireline logs submitted with Form WR-35 for Reynolds Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7163' – 14,030' MD (1152 holes)

Frac'd w/ 5,000 gals 15% HCL Acid, 116,151 bbls Slick Water carrying 537,000# 100 mesh, 2,500,800# 40/70 and 1,583,600# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	1,448'		1,529'
Big Injun	1,530'		1,907'
Gantz Sand	1,908'		2,018'
Fifty Foot Sand	2,019'		2,160'
Gordon	2,161'		2,431'
Fifth Sandstone	2,432'		3,122'
Speechley	3,123'		3,335'
Balltown	3,336'		3,850'
Bradford	3,851'		4,461'
Benson	4,462'		4,806'
Alexander	4,807'		5,037'
Elk	5,038'		5,644'
Rhinestreet	5,645'		6,355'
Sycamore	6,355'		6,632'
Sycamore Shale	6,633'		6,823'
Tully	6,824'		6,948'
Hamilton	6,949'		7,024'
Marcellus	7,025'		7,063' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/29/2012
API #: 47-033-05581

Farm name: Williams, Edgar- Estate Operator Well No.: Williams Unit 2H

LOCATION: Elevation: 1190' Quadrangle: Wolf Summit

District: Coal County: Harrison
Latitude: 7,457 Feet South of 39 Deg. 20 Min. 00 Sec.
Longitude 9,144 Feet West of 80 Deg. 22 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	500'	500'	695 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2565'	2565'	1044 Cu. Ft. Class A
Date Permit Issued: 12/01/2011	5-1/2" 20#	14,165'	14,165'	3475 Cu. Ft. Class H
Date Well Work Commenced: 12/16/2011				
Date Well Work Completed: 04/22/2012	2-3/8" 4.7#	7110'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7021' TVD				
Total Measured Depth (ft): 14,165' MD, 6,999' TVD (BHL)				
Fresh Water Depth (ft.): 100', 156'				
Salt Water Depth (ft.): *None available				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Pad on PGH strip bench				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,972' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 7095 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3300 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes_____ No X_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes - CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Marsh Unit 1H API# 47-033-05361). Please reference wireline logs submitted with Form WR-35 for Marsh Unit 1H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,147' - 14,100' MD (1,776 holes)

Frac'd w/ 11,000 gals 15% HCL Acid, 148,278 bbls Slick Water carrying 731,300# 100 mesh, 3,378,500# 40/70 and 2,295,600# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Gantz Sand	1,847'	1,941'
Fifty Foot Sandstone	1,942'	2,144'
Gordon	2,145'	2,375'
Fifth Sand	2,376'	2,613'
Bayard	2,614'	3,077'
Speechley	3,078'	3,304'
Balltown	3,305'	3,779'
Bradford	3,780'	4,455'
Benson	4,456'	4,722'
Alexander	4,723'	4,976'
Elk	4,977'	6,250'
Sycamore	6,251'	6,541'
Middlesex	6,542'	6,678'
Genundewa	6,679'	6,721'
Burket	6,722'	6,749'
Tully	6,750'	6,882'
Hamilton	6,883'	6,971'
Marcellus	6,972'	7,021' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/29/2012
API #: 47-033-05577

Farm name: Sperry, Clarence E., Janet L., and L. Diane Operator Well No.: GT Post Unit 2H

LOCATION: Elevation: 1169' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 2310 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 4375 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	30" 94#	20'	20'	43 Cu. Ft. Class A
Agent: CT Corporation System	20" 94#	60'	60'	58 Cu. Ft. Class A
Inspector: Tristan Jenkins	13-3/8" 48#	533'	533'	761 Cu. Ft. Class A
Date Permit Issued: 9/20/2011	9-5/8" 36#	2559'	2559'	1055 Cu. Ft. Class A
Date Well Work Commenced: 10/11/2011	5-1/2" 20#	12,524'	12,524'	3019 Cu. Ft. Class H
Date Well Work Completed: 1/20/2012				
Verbal Plugging: N/A	2-3/8" 4.7#	7086'		
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,015' TVD				
Total Measured Depth (ft): 12,535' MD, 6,921' TVD (BHL)				
Fresh Water Depth (ft.): 50', 75'				
Salt Water Depth (ft.): 610'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Pad on PGH strip bench. Sealed coal mine 1,850' to the NW of pad.				
Void(s) encountered (N/Y) Depth(s) N,N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,974' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 10,227 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Shawna Reed
Signature

11/29/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post Unit 2H API# 47-033-05492). Please reference wireline logs submitted with Form WR-35 for Post Unit 2H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7197' - 12,417' MD (1320 holes)

Frac'd w/ 8,000 gals 15% HCL Acid, 123,444 bbls Slick Water carrying 591,300# 100 mesh,

2,657,200 # 40/70 and 1,788,100# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Gordon	2,147'		2419'
Fifth Sandstone	2,420'		2468'
Bayard	2,469'		3143'
Speechley	3,144'		3362'
Balltown	3,363'		3853'
Bradford	3,854'		4437'
Benson	4,438'		4735'
Alexander	4,736'		4825'
Elk	4,826'		6300'
Sycamore	6,301'		6377'
Sonyea	6,378'		6655'
West River Shale	6,656'		6574'
Middlesex	6,575'		6710'
Genundewa	6,711'		6754'
Burket	6,755'		6780'
Tully	6,781'		6902'
Hamilton	6,903'		6973'
Marcellus	6,974'		7015' TVD

WR-35
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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/29/2012
API #: 47-033-05576

Farm name: Sperry, Clarence E., Janet L., and Diane Operator Well No.: GT Post Unit 1H

LOCATION: Elevation: 1169' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 2320 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 4370 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	60'	60'	58 Cu. Ft. Class A
Agent: CT Corporation System	13-3/8" 48#	475'	475'	660 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2525'	2525'	1028 Cu. Ft. Class A
Date Permit Issued: 09/20/2011	5-1/2" 20#	13,255'	13,255'	3290 Cu. Ft. Class H
Date Well Work Commenced: 9/27/2011				
Date Well Work Completed: 1/13/2012	2-3/8" 4.7#	7040'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,020' TVD				
Total Measured Depth (ft): 13,255' MD, 6,926' TVD (BHL)				
Fresh Water Depth (ft.): 60'				
Salt Water Depth (ft.): 2125'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Pad on PGH strip bench. Sealed coal mine 1,850' to the NW of pad.				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,973' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 8,278 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after --- Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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Signature

11/29/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes- CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Post Unit 2H API# 47-033-05492). Please reference wireline logs submitted with Form WR-35 for Post Unit 2H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7244' - 13,185' MD (1,296 holes)

Frac'd w/ 9,500 gals 15% HCL Acid, 137,342 bbls Slick Water carrying 656,100# 100 mesh,

3,143,900 # 40/70 and 2,048,600# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/ Bottom Depth
Fifty Foot Sandstone	2,004'	2,146'
Gordon	2,147'	2,417'
Fifth Sandstone	2,418'	2,467'
Bayard	2,468'	3,142'
Speechley	3,143'	3,360'
Balltown	3,361'	3,855'
Bradford	3,856'	3,855'
Benson	4,433'	4,432'
Alexander	4,733'	4,822'
Elk	4,823'	6,273'
Sycamore	6,274'	6,560'
Middlesex	6,561'	6,561'
Sonyea	6,562'	6,655'
West River Shale	6,656'	6,750'
Genundewa	6,751'	6,779'
Tully	6,780'	6,901'
Hamilton	6,902'	6,972'
Marcellus	6,973'	7,020' TVD

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-033-05559

Farm name: Matheny, C Norman Matheny & Wandal Operator Well No.: Nelson Unit 1H

LOCATION: Elevation: 1273' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 3617 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 973 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13 3/8" 55#	483'	483'	671 Cu. Ft. Class A
Inspector: Tristan Jenkins	9 5/8" 36#	2,526'	2,526'	1028 Cu. Ft. Class A
Date Permit Issued: 7/11/2011, 12/2/2011 (Permit Mod)	5 1/2" 20#	14,258'	14,258'	3514 Cu. Ft. Class H
Date Well Work Commenced: 12/8/2011				
Date Well Work Completed: 6/10/2012	2 3/8" 4.7#	6,701'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6755' TVD				
Total Measured Depth (ft): 15,647' MD				
Fresh Water Depth (ft.): Drilled surface casing section with freshwater. No indications of water influx.				
Salt Water Depth (ft.): est. 815'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): Deepest known coal seam mined at surface				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Burkett Pay zone depth (ft) 6733' TVD (Top)
Gas: Initial open flow ----- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 2983 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ----- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Shawna Pedicord
Signature

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Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Hawker Unit 1H API# 47-033-05553). Please reference wireline logs submitted with Form WR-35 for Hawker Unit 1H

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,179'-14,192' (1440holes)
Frac'd w/ 10,500 gals 15% HCL Acid, 156,069 bbls Slick Water carrying 836,393# 100 mesh,
3,147,873# 40/70 and 1,875,536# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered:	Top Depth	Bottom Depth
Surface:		1,573'
Big Lime (est.)	1,458'	1,968'
Big Injun (est.)	1,574'	2,119'
Fifty Foot Sand (est.)	1,969'	2,388'
Gordon (est.)	2,120'	2,445'
Fifth Sandstone (est.)	2,389'	3,089'
Bayard (est.)	2,446'	3,301'
Speechley (est.)	3,090'	3,798'
Balltown (est.)	3,302'	4,398'
Bradford (est.)	3,799'	4,707'
Benson (est.)	4,399'	4,924'
Alexander (est.)	4,708'	6,162'
Elk (est.)	4,925'	6,551'
Sycamore SS	6,163'	6,637'
Sonyea	6,552'	6,659'
West River	6,638'	6,732'
Genundewa	6,690	6,755' (TVD)
Burket	6,733'	

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-033-05629

Farm name: Sperry, Clarence Operator Well No.: Boring Unit 1H

LOCATION: Elevation: 1166' Quadrangle: West Milford

District: Union County: Harrison
Latitude: 10,004 Feet South of 39 Deg. 15 Min. 00 Sec.
Longitude 1098 Feet West of 80 Deg. 25 Min. 00 Sec.

Company: Antero Resources Appalachian Corp.

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft. Class A
Agent: CT Corporation System	13 3/8" 48#	547'	547'	760 Cu. Ft. Class A
Inspector: Tristan Jenkins	9 5/8" 36#	2,580'	2,580'	1050 Cu. Ft. Class A
~~Date Permit Issued: 6/26/2012~~	5 1/2" 20#	16364'	16364'	4077 Cu. Ft. Class H
Date Well Work Commenced: 7/2/2012				
Date Well Work Completed: 8/31/2012	2 3/8" 4.7#	6599'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6895' TVD				
Total Measured Depth (ft): 16,374' MD, 6,888 TVD (BHL)				
Fresh Water Depth (ft.): est. 102'				
Salt Water Depth (ft.): 843'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6863' TVD (Top)
Gas: Initial open flow ------ MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 13483 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ------ Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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Signature Date 11/26/12

Were core samples taken? Yes X No_____ Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list CBL

This is a subsequent well. Antero only runs wireline logs on the first well on a multi-pad (Scott Unit 3H API# 47-033-05503). Please reference wireline logs submitted with Form WR-35 for Scott Unit 3H.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,135'-16,299' (1848 holes)

Frac'd w/ 15,162 gals 15% HCL Acid, 188,594 bbls Slickwater carrying 981,020# 100 mesh, 3,552,180# 40/70 sand and 2,206,673# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	1,436'		1,551'
Big Injun	1,552'		1,859'
Gantz Sand	1,860'		1,963'
Fifty Foot Sand	1,964'		2,104'
Gordon	2,105'		2,369'
Fifth Sandstone	2,370'		3,069'
Speechley	3,070'		3,293'
Balltown	3,294'		3,800'
Bradford	3,801'		4,398'
Benson	4,399'		4,770'
Alexander	4,771'		4,993'
Elk	4,994'		5,639'
Rhinestreet	5,640'		6,204'
Sycamore SS	6,205'		6,277'
Sonyea	6,278'		6,549'
West River	6,550'		6,643'
Burket	6,644'		6,670'
Tully	6,671'		6,788'
Hamilton	6,789'		6,862'
Marcellus	6,863'		6,895' TVD

WR-35
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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-033-05580

Farm name: Williams, Betty Ann Operator Well No.: Post East Unit 5H

LOCATION: Elevation: 1215' Quadrangle: Wolf Summit

District: Tenmile County: Harrison
Latitude: 3,413 Feet South of 39 Deg. 17 Min. 30 Sec.
Longitude 8,866 Feet West of 80 Deg. 27 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	20" 94#	40'	40'	38 Cu. Ft Class A
Agent: CT Corporation System	13-3/8" 54.5#	551'	551'	765 Cu. Ft. Class A
Inspector: Tristan Jenkins	9-5/8" 36#	2533'	2533'	1031 Cu. Ft. Class A
~~Date Permit Issued: 1/6/2012~~	~~5-1/2" 20#~~	~~17,005'~~	~~17,005'~~	~~4267 Cu. Ft. Class H~~
Date Well Work Commenced: 2/22/2012				
Date Well Work Completed: 8/21/2012	2-3/8" 4.7#	7137'		
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7,043' TVD				
Total Measured Depth (ft): 17,005' MD				
Fresh Water Depth (ft.): 20', 23', 40', 45', 50'				
Salt Water Depth (ft.): 1,510'				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 116', 196', 221'				
Void(s) encountered (N/Y) Depth(s) No, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,954' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 13,184 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3600 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature Date 11/26/12

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Yes – CBL, Dual Laterolog/Caliper/Gamma Ray, & Photo Density/Compensated Neutron/ Gamma Ray.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7325'-16,936' MD (1932 holes)

Frac'd w/ 17,368 gals 15% HCL Acid, 205,021 bbls Slick Water carrying 1,072,995# 100 mesh, 3,984,655# 40/70 and 2,399,366# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	1,586'		2,120'
Fifty Foot Sand	2,121'		2,247'
Gordon	2,248'		2,532'
Fifth Sandstone	2,533'		2,583'
Bayard	2,584'		3,239'
Speechley	3,240'		3,467'
Balltown	3,468'		4,001'
Bradford	4,002'		4,578'
Benson	4,579'		4,871'
Alexander	4,872'		5,100'
Elk	5,101'		5,628'
Rhinestreet	5,629'		6,297'
Sycamore	6,298'		6,558'
Middlesex	6,559'		6,564'
Sonyea	6,565'		6,640'
West River Shale	6,641'		6,703'
Genundewa	6,704'		6,735'
Burkett	6,736'		6,761'
Tully	6,762'		6,953'
Marcellus	6,954'		7,043' TVD

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11/26/2012
API #: 47-017-05962 D

Farm name: Dotson, Rendal J. & Sandra Operator Well No.: R. Swiger South Unit 1H

LOCATION: Elevation: 880' Quadrangle: Folsom 7.5'

District: McClellan County: Doddridge
Latitude: 10,377 Feet South of 39 Deg. 25 Min. 00 Sec.
Longitude 11,026 Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Antero Resources Appalachian Corp

Address: 1625 17th Street	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Denver, CO 80202	26" 273#	25'	25'	Sand in 49 Cu. Ft.
Agent: CT Corporation System	20" 94#	80'	80'	77 Cu. Ft. Class A
Inspector: Sam Ward	13 3/8" 54.5#	378'	378'	525 Cu. Ft. Class A
~~Date Permit Issued: 6/7/2010, 6/6/2011 (Drill Deeper Permit)~~	9 5/8" 40#	2,725'	2,725'	1110 Cu. Ft. Class A
Date Well Work Commenced: 6/16/2010	5 1/2" 20#	13,435'	13,435'	3228 Cu. Ft. Class H
Date Well Work Completed: 6/1/2012				
Verbal Plugging: N/A				
Date Permission granted on: N/A	2 3/8" 4.7#	6994'		
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7046' TVD				
Total Measured Depth (ft): 13435' MD				
Fresh Water Depth (ft.): 15', 155'				
Salt Water Depth (ft.): 1050'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): est. 138', 253', 411', 482', 520'				
Void(s) encountered (N/Y) Depth(s) N, N/A				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6927' TVD (Top)
Gas: Initial open flow ---- MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow 4311 MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure 3800 psig (surface pressure) after ---- Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

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2012 NOV 27 P 1:37
WV DEPARTMENT OF
ENVIRONMENTAL PROTECTION

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Shawna Reddick
Signature

11/26/12
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list CBL

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Perforations: 7,395'-13,368' (1224 holes)

Frac'd w/ 9,000 gals 15% HCL Acid, 129,739 bbls Slick Water carrying 735,500# 100 mesh, 2,666,200# 40/70 and 1,603,500# 20/40 sand.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Surface:	Top Depth	/	Bottom Depth
Big Lime	1,765'		1,841'
Big Injun	1,842'		2,302'
Gantz Sand	2,303'		2,416'
Fifty Foot Sand	2,417'		2,505'
Gordon	2,506'		2,826'
Fifth Sandstone	2,827'		2,850'
Bayard	2,851'		3,618'
Speechley	3,619'		4,047'
Balltown	4,048'		4,314'
Bradford	4,315'		4,786'
Benson	4,787'		5,138'
Alexander	5,139'		5,306'
Elk	5,307'		5,953'
Rhinestreet	5,954'		6,397'
Sycamore SS	6,398'		6,618'
Middlesex	6,619'		6,776'
Burket	6,777'		6,802'
Tully	6,803'		6,883'
Hamilton	6,884'		6,926'
Marcellus	6,927'		7,046' TVD

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 8-16-2012
API #: 47-051-01277

Farm name: McDowell B 8H Operator Well No.: 627053

LOCATION: Elevation: 1356' Quadrangle: Wileyville

District: Meade County: Marshall
Latitude: 1247' Feet South of 39 Deg. 45 Min. 00 Sec.
Longitude 4609' Feet West of 80 Deg. 40 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	1206'	1206'	1459 Cu. Ft.
Agent: Eric Gillespie				
Inspector: Derek Haught				
Date Permit Issued: 6-15-2009				
Date Well Work Commenced: 8-8-2009				
Date Well Work Completed: 8-20-2009				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 1206' (cement plug @880'-1141')				
Total Measured Depth (ft): 1206				
Fresh Water Depth (ft.): 360'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 275', 1065'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after _____Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

8-16-2012
Date

Were core samples taken? Yes_____ No_____ Were cuttings caught during drilling? Yes_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Plug Back Details Including Plug Type and Depth(s): Cement plug @890' - 1141'; Shut well in

Formations Encountered: Surface:	Top Depth /	Bottom Depth
SHALE/SS	0	275
COAL	275	277
SHALE/SS	277	1065
COAL	1065	1067
SHALE/SS	1067	1140
PITTSBURGH COAL	1140	1149
SHALE/SS	1149	1206

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11-28-2012
API #: 47-085-09891

Farm name: Heartwood Forestland Fund 3H Operator Well No.: 832255

LOCATION: Elevation: 907' Quadrangle: Harrisville

District: Murphy County: Ritchie
Latitude: 5405' Feet South of 39 Deg. 10 Min. 00 Sec.
Longitude 13610' Feet West of 81 Deg. 05 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	Driven
Agent: Eric Gillespie	13 3/8"	339'	339'	359 Cu. Ft.
Inspector: David Cowan	9 5/8"	2311'	2311'	1038 Cu. Ft.
Date Permit Issued: 7-30-2010	5 1/2"	6114'	6114'	4210 Cu. Ft.
Date Well Work Commenced: 9-12-2011				
Date Well Work Completed: 10-6-2011				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6119'				
Total Measured Depth (ft): ~~6119'~~ Vertical well per M Williams				
Fresh Water Depth (ft.): 200'				
Salt Water Depth (ft.): None				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): None				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 5,945'-5,947'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Not Tested MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Received
Office of Oil & Gas
DEC 03 2012

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-6-2012
Date

Were core samples taken? Yes X No_____ Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Triple combo in surface and intermediate section. Quad combo in pilot hole TD section.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 832255 Heartwood Forestland Fund 3H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
2/22/2012	5,945	5,947								

VERTICAL PILOT HOLE

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0		692	692
SHALE	692	692	720	720
SS/SHALE	720	720	790	790
LS	790	790	810	810
SS	810	810	1050	1050
SHALE	1050	1050	1110	1110
SS	1110	1110	1170	1170
SHALE	1170	1170	1318	1318
SS	1318	1318	1350	1350
SHALE	1350	1350	1380	1380
SS	1380	1380	1500	1500
SHALE/SS	1500	1500	1738	1738
BIG LIME	1738	1738	1915	1915
BIG INJUN	1915	1915	1961	1961
SHALE/SS	1961	1961	2012	2012
SS	2012	2012	2610	2610
SHALE/SS	2610	2610	2634	2634
SS/SHALE	2634	2634	3840	3840
LS	3840	3840	3870	3870
SS	3870	3870	4920	4920
RHINESTREET	4920	4920	5797	5797
MIDDLESEX	5797	5797	5884	5884
GENESEO	5884	5884	5894	5894
TULLY	5894	5894	5907	5907
MARCELLUS	5907	5907	5961	5961
ONONDAGA	5961	5961	6119	6119
TD	6119	6119		

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11-28-2012
API #: 47-069-00107

Farm name: Chad Glauser OHI 8H Operator Well No.: 834321

LOCATION: Elevation: 1250 Quadrangle: Valley Grove

District: Triadelphia County: Ohio

Latitude: 3940' Feet South of 40 Deg. 02 Min. 30 Sec.

Longitude 4290' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	348 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	744'	744'	797 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2203'	2203'	954 Cu. Ft.
Date Permit Issued: 2-6-2012	5 1/2"	13095'	13095'	3112 Cu. Ft.
Date Well Work Commenced: 6-28-2012				
Date Well Work Completed: 8-30-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6493'				
Total Measured Depth (ft): 13103'				
Fresh Water Depth (ft.): 30',300'				
Salt Water Depth (ft.): 1135'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 678'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation Marcellus Pay zone depth (ft) 6,950'-12,965'

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow Not Tested MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____

Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d

Final open flow _____ MCF/d Final open flow _____ Bbl/d

Time of open flow between initial and final tests _____ Hours

Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-5-2012
Date

Were core samples taken? Yes_____ No X_____ Were cuttings caught during drilling? Yes X_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Triple Combo in Surface and Intermediate sections. MWD GR in curve and lateral sections.

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 834321 Chad Glauser OHI 8H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
8/13/2012	12,539	12,965	8/23/2012	12,539	12,965	Slk wtr	10,294	Sand	604,480	79.9
8/23/2012	12,032	12,456	8/23/2012	12,032	12,456	Slk wtr	10,376	Sand	602,860	79.4
8/23/2012	11,524	11,948	8/24/2012	11,524	11,948	Slk wtr	10,309	Sand	605,420	78.5
8/24/2012	11,015	11,440	8/24/2012	11,015	11,440	Slk wtr	10,348	Sand	602,620	78.8
8/25/2012	10,507	10,932	8/25/2012	10,507	10,932	Slk wtr	10,308	Sand	597,500	79.6
8/25/2012	9,999	10,424	8/25/2012	9,999	10,424	Slk wtr	10,320	Sand	598,140	79.7
8/28/2012	9,491	9,916	8/28/2012	9,491	9,916	Slk wtr	10,347	Sand	597,280	79.7
8/29/2012	8,983	9,408	8/29/2012	8,983	9,408	Slk wtr	10,420	Sand	598,600	80.4
8/29/2012	8,475	8,900	8/29/2012	8,475	8,900	Slk wtr	10,303	Sand	603,960	79.7
8/30/2012	7,966	8,392	8/30/2012	7,966	8,392	Slk wtr	10,140	Sand	600,620	79.9
8/30/2012	7,458	7,883	8/30/2012	7,458	7,883	Slk wtr	10,337	Sand	597,820	79.7
8/31/2012	6,950	7,375	8/30/2012	6,950	7,375	Slk wtr	10,229	Sand	598,680	80

LATERAL WELLBORE

Maximum TVD of wellbore: 6493 ft TVD @ 13103 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	678	678
PITTSBURGH COAL	678	678	687	687
SS/SLTSTN	687	687	800	800
SHALE	800	800	1080	1080
SS/SHALE	1080	1080	1320	1320
SHALE	1320	1320	1440	1440
SS	1440	1440	1590	1590
SHALE	1590	1590	1694	1694
BIG LIME	1694	1694	1720	1720
BIG INJUN	1720	1720	1964	1964
SHALE	1964	1964	2280	2280
SS/SHALE	2280	2280	2340	2340
SHALE	2340	2340	3206	3206
SS/SHALE	3206	3206	3270	3270
SHALE/SS	3270	3270	3330	3330
SHALE	3330	3330	6378	6243
GENESEO	6378	6243	6406	6260
TULLY	6406	6260	6467	6294
HAMILTON	6467	6294	6777	6408
MARCELLUS	6777	6408	13103	6493
TD	13103	6493		0

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11-28-2012
API #: 47-069-00136

Farm name: Chad Glauser OHI 5H Operator Well No.: 835090

LOCATION: Elevation: 1240' Quadrangle: Valley Grove

District: Triadelphia County: Ohio
Latitude: 3950' Feet South of 40 Deg. 02 Min. 30 Sec.
Longitude 4310' Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	20"	100'	100'	409 Cu. Ft.
Agent: Eric Gillespie	13 3/8"	745'	745'	1080 Cu. Ft.
Inspector: Bill Hendershot	9 5/8"	2200'	2200'	1030 Cu. Ft.
Date Permit Issued: 7-17-2012	5 1/2"	11757'	11757'	2784 Cu. Ft.
Date Well Work Commenced: 7-21-2012				
Date Well Work Completed: 8-23-2012				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6429'				
Total Measured Depth (ft): 11757'				
Fresh Water Depth (ft.): 576'				
Salt Water Depth (ft.): 1135'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 678'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) 6,800'-11,612'
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow Not Tested MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-5-2012
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list MWD GR in the curve and lateral sections

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

(See Attached)

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See attached)

PERFORATION RECORD ATTACHMENT

Well Number and Name: 835090 Chad Glauser OHI 5H

PERFORATION RECORD			STIMULATION RECORD							
	Interval Perforated					*Fluid*		*Propping Agent*		Average
Date	From	To	Date	Interval Treated		Type	Amount	Type	Amount	Injection
8/11/2012	11,283	11,612	8/18/2012	11,283	11,612	Slk wtr	7,770	Sand	401,220	78
8/18/2012	10,875	11,205	8/18/2012	10,875	11,205	Slk wtr	7,524	Sand	401,280	79.7
8/18/2012	10,468	10,797	8/19/2012	10,468	10,797	Slk wtr	7,389	Sand	400,620	79
8/19/2012	10,060	10,390	8/19/2012	10,060	10,390	Slk wtr	7,626	Sand	399,220	79.1
8/19/2012	9,653	9,982	8/19/2012	9,653	9,982	Slk wtr	7,607	Sand	399,260	79.7
8/19/2012	9,245	9,575	8/19/2012	9,245	9,575	Slk wtr	7,226	Sand	402,220	79.8
8/20/2012	8,838	9,167	8/20/2012	8,838	9,167	Slk wtr	7,495	Sand	395,820	80.1
8/20/2012	8,430	8,760	8/20/2012	8,430	8,760	Slk wtr	7,193	Sand	397,080	79.9
8/20/2012	8,025	8,355	8/20/2012	8,025	8,355	Slk wtr	7,318	Sand	397,840	79.7
8/21/2012	7,615	7,945	8/22/2012	7,615	7,945	Slk wtr	7,232	Sand	399,100	79.9
8/22/2012	7,208	7,537	8/22/2012	7,208	7,537	Slk wtr	7,283	Sand	397,400	80
8/22/2012	6,800	7,130	8/23/2012	6,800	7,130	Slk wtr	7,187	Sand	398,460	79

LATERAL WELLBORE

Maximum TVD of wellbore: 6429 ft TVD @ 6766 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS	0	0	678	678
PITTSBURGH COAL	678	678	686	686
SS/SLTSTN	686	686	830	830
SHALE	830	830	1130	1130
SS/SHALE	1130	1130	1314	1314
SHALE	1314	1314	1340	1340
SS/SHALE	1340	1340	1648	1648
SHALE	1648	1648	1696	1696
SS	1696	1696	1890	1890
BIG INJUN	1890	1890	2030	2030
SHALE	2030	2030	2300	2300
SLTSTN	2300	2300	2480	2480
SHALE	2480	2480	4010	4010
SLTSTN	4010	4010	4040	4040
SHALE	4040	4040	4220	4220
SLTSTN	4220	4220	4400	4400
SHALE	4400	4400	4490	4490
SLTSTN	4490	4490	5360	5360
SHALE	5360	5360	6322	6247
GENESEO	6322	6247	6345	6263
TULLY	6345	6263	6380	6288
HAMILTON	6380	6288	6595	6396
MARCELLUS	6595	6396	11757	6363
TD	11757	6363		0

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11-28-2012
API #: 47-009-00098

Farm name: Samuel Hubbard BRK 8H Operator Well No.: 833468

LOCATION: Elevation: 1225' Quadrangle: Steubenville East

District: Cross Creek County: Brooke
Latitude: 1950' Feet South of 40 Deg. 17 Min. 30 Sec.
Longitude 1580' Feet West of 80 Deg. 32 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	296'	296'	129 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	1765'	1765'	853 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	10080'	10080'	2503 Cu. Ft.
Date Permit Issued: 6-22-2011				
Date Well Work Commenced: 10-27-2011				
Date Well Work Completed: 7-17-2012(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 5940'				
Total Measured Depth (ft): 10091'				
Fresh Water Depth (ft.): 60', 95', 200'				
Salt Water Depth (ft.): 1055'				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 257'				
Void(s) encountered (N/Y) Depth(s) Y 265'				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) n/a(not frac'd)
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marty Williams
Signature

12-10-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list_____
LWD GR from 5206' - 10091' MD

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

No frac or stimulating will frac 5-9-2013

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

(See attached)

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 5940 ft TVD @ 10091 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	257	257
PITTSBURG COAL	257	257	350	350
SS/SH	350	350	400	400
SS	400	400	1252	1252
BIG LIME (LS)	1252	1252	1395	1395
BIG INJUN (SS)	1395	1395	1555	1555
SHALE	1555	1555	5696	5664
GENESEO (SH)	5696	5664	5715	5679
TULLY (LS)	5715	5679	5814	5743
HAMILTON (SH)	5814	5743	6043	5839
MARCELLUS (SH)	6043	5839		
TD OF LATERAL			10091	5940

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State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10-25-2012
API #: 47-051-01295

Farm name: Ray Baker 8H Operator Well No.: 831193

LOCATION: Elevation: 1310' Quadrangle: Glen Easton 7.5'

District: Liberty County: Marshall
Latitude: 7060' Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 14120' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	1224'	1224'	1105 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	2653'	2653'	1178 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	12140'	12140'	2416 Cu. Ft.
Date Permit Issued: 9-11-2009				
Date Well Work Commenced: 11-19-2010				
Date Well Work Completed: 12-18-2010(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7054'				
Total Measured Depth (ft): 12170'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) n/a (not frac'd)
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-10-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR MWD from 6540' - 12170'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Fracturing on hold

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 7054 ft TVD @ 12170 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SILTSTONE/LS	0	0	375	375
PITTSBURG COAL	375	375	385	385
SHALE W/ MINOR SS	385	385	1500	1500
SHALE W/ LS	1500	1500	2210	2210
BIG LIME	2210	2210	2260	2260
BIG INJUN (SS)	2260	2260	2490	2490
SHALE W/ SS	2490	2490	6945	6928
GENESEO (SH)	6945	6928	6968	6947
TULLY (LS)	6968	6947	6992	6972
HAMILTON (SH)	6992	6972	7172	7063
MARCELLUS (SH)	7172	7063		
TD OF LATERAL			12170	7054

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 10-25-2012
API #: 47-051-01328

Farm name: Ray Baker 6H Operator Well No.: 831605

LOCATION: Elevation: 1310' Quadrangle: Glen Easton 7.5

District: Liberty County: Marshall
Latitude: 7070' Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 14120' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	1169'	1169'	1212 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	2676'	2676'	1143 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	11830'	11830'	2975 Cu. Ft.
Date Permit Issued: 11-24-2009				
Date Well Work Commenced: 10-17-2010				
Date Well Work Completed: 11-18-2010(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 7065'				
Total Measured Depth (ft): 11830'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375', 1029'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) n/a (not frac'd)
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

Second producing formation_____ Pay zone depth (ft)_____
Gas: Initial open flow_____MCF/d Oil: Initial open flow_____Bbl/d
Final open flow_____MCF/d Final open flow _____Bbl/d
Time of open flow between initial and final tests_____Hours
Static rock Pressure_____psig (surface pressure) after _____Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-10-2012
Date

Were core samples taken? Yes_____ No N Were cuttings caught during drilling? Yes Y No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR MWD FROM 6700' - 11830'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Fracturing on hold

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth

Surface:

See attached

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 7065 ft TVD @ 11830 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SILTSTONE/LS	0	0	375	375
PITTSBURG COAL	375	375	385	385
SILTSTONE/SHALE	385	385	1029	1029
COAL	1029	1029	1039	1039
SHALE W/ LS	1039	1039	1560	1560
SHALE W/ COAL	1560	1560	1590	1590
SHALE W/ SS	1590	1590	2200	2200
BIG LIME	2200	2200	2300	2300
BIG INJUN (SS)	2300	2300	2480	2480
SHALE	2480	2480	5100	5100
SHALE/SS	5100	5100	5430	5430
SHALE W/ LS	5430	5430	7139	6919
GENESEO (SH)	7139	6919	7172	6940
TULLY (LS)	7172	6940	7215	6968
HAMILTON (SH)	7215	6968	7392	7055
MARCELLUS (SH)	7392	7055		
TD OF LATERAL			11830	7065

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 11-29-2012
API #: 47-051-01408

Farm name: Ray Baker 1H Operator Well No.: 832774

LOCATION: Elevation: 1310' Quadrangle: Glen Easton

District: Liberty County: Marshall
Latitude: 7060' Feet South of 39 Deg. 47 Min. 30 Sec.
Longitude 14140' Feet West of 80 Deg. 37 Min. 30 Sec.

Company: Chesapeake Appalachia, L.L.C.

Address: P.O. Box 18496	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Oklahoma City, OK 73154-0496	13 3/8"	1213'	1213'	1240 Cu. Ft.
Agent: Eric Gillespie	9 5/8"	2644'	2644'	1201 Cu. Ft.
Inspector: Bill Hendershot	5 1/2"	13352'	13352'	2924 Cu. Ft.
Date Permit Issued: 12-15-2010				
Date Well Work Commenced: 12-24-2010				
Date Well Work Completed: 2-4-2011(Rig release date)				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☐				
Total Vertical Depth (ft): 6982'				
Total Measured Depth (ft): 13354'				
Fresh Water Depth (ft.): 395'				
Salt Water Depth (ft.): N/A				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 375'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) n/a (not frac'd)
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

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WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Marlene Williams
Signature

12-10-2012
Date

Were core samples taken? Yes_____ No N_____ Were cuttings caught during drilling? Yes Y_____ No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list GR MWD from 6600' - 13354'

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Fracturing on hold

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

See attached

LATERAL SIDETRACK WELLBORE (no vertical pilot hole associated with this well)

Maximum TVD of wellbore: 6982 ft TVD @ 13354 ft MD

Formation/Lithology	Top Depth, MD (ft)	Top Depth, TVD (ft)	Bottom Depth, MD (ft)	Bottom Depth, TVD (ft)
SS/LS	0	0	375	375
PITTSBURG COAL	375	375	385	385
SILTSTONE/SHALE	385	385	2200	2200
BIG LIME	2200	2200	2481	2481
BIG INJUN (SS)	2481	2481	2580	2580
SHALE	2580	2580	2820	2820
SHALE/SS	2820	2820	3100	3100
SHALE W/ MINOR SS	3100	3100	7078	6927
GENESEO (SH)	7078	6927	7108	6947
TULLY (LS)	7108	6947	7139	6980
HAMILTON (SH)	7139	6980	7362	7062
MARCELLUS (SH)	7362	7062		
TD OF LATERAL			13354	6982

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Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 2012-11-29
API #: 47-9101216

Farm name: Charles H. Cather et al Operator Well No.: 513056

LOCATION: Elevation: 1183 Quadrangle: Rosemont

District: Unknown County: Taylor, WV
Latitude: 39.29230 Feet South of ____ Deg. ____ Min. ____ Sec.
Longitude -80.15006 Feet West of West Deg. ____ Min. ____ Sec.

Company: EQT Production Company

Address: EQT Plaza, Suite 1700	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
625 Liberty Avenue, Pittsburgh, PA 15222	20	40	40	44.03
Agent: Cecil Ray	13 3/8	1,060	1,060	888
Inspector: Brian Harris	9 5/8	2,852	2,852	1,076.95
Date Permit Issued: 2011-02-24	5 1/2	10,371	10,371	1,118.1
Date Well Work Commenced: 2011-05-16				
Date Well Work Completed: 2012-02-23				
Verbal Plugging:				
Date Permission granted on:				
Rotary ☑ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 7,721.60				
Total Measured Depth (ft): 10,376				
Fresh Water Depth (ft.): 55, 542 ft				
Salt Water Depth (ft.): 1,878 ft				
Is coal being mined in area (N/Y)? N				
Coal Depths (ft.): 150, 331 , 470, 524, 605				
Void(s) encountered (N/Y) Depth(s)				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Marcellus Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow 2,782 MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure 2,848 psig (surface pressure) after ____ Hours

Second producing formation ____ Pay zone depth (ft) ____
Gas: Initial open flow ____ MCF/d Oil: Initial open flow ____ Bbl/d
Final open flow ____ MCF/d Final open flow ____ Bbl/d
Time of open flow between initial and final tests ____ Hours
Static rock Pressure ____ psig (surface pressure) after ____ Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Mick Ratliff
Signature

2012-11-29
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes_____ No X

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Geophysical

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

See Attachment

Plug Back Details Including Plug Type and Depth(s):

Formations Encountered: Top Depth / Bottom Depth
Surface:

Fill 0/74 -- Red Rock 78/84 -- Fill/Clay 84/107 -- Red Rock 107/110 -- Fill 110/150-- Coal 150/153 -- Fill 153/169

Red Rock 169/174 -- Sand/Shale 174/331-- Coal 331/336 -- Rosedale Gas Sand 336/524 -- Coal 524/530

Black Shale 530/605 -- Coal 605/610 -- Gray Shale 610/955 -- Red Sandstone 955/1320

Big Lime 1,320 / 1,424.65 -- Big Injun 1,424.65 / 1,577.04 -- Weir Sand 1,577.04 / 1,810

Gantz 1,810 / 1,879.22 -- Fifty Foot 1,879.22 / 1,949.82 -- -Thirty Foot 1,949.82 / 2,008.36 --

Gordon 2,008.36 / 2,128.03 -- -Fourth Sand 2,128.03 / 2,343.85 -- Fifth Sand 2,343.85 / 2,371.67 --

Bayard 2,371.67 / 2,783.3 -- -B-5 2,783.3 / 3,001.61 -- -Speechley 3,001.61 / 3,332.79 --

Riley 3,717.32 / 4,346.2 -- -Benson 4,346.2 / 4,704.67 -- Elk 4,704.67 / 6,572.83 □

Sonyea 6,572.83 / 6,901.42 -- Middlesex 6,901.42 / 7,036.62 -- Genesee 7,036.62 / 7,296.36 --

Geneseo 7,296.36 / 7,316.42 -- Tully 7,316.42 / 7,369.64 -- Hamilton 7,369.64 / 7,502.25 □

Marcellus / 7,502.25 -- Purcell / 7,566.8 -- Cherry Valley / 7,643.08 --

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
1	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/10/2011	10228 - 10350		6,482.00	8,023.00	5 Min: 5293
					10 Min: 4894
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4762
97.00	9,128.00	6,505.00	1.28		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
197,522.00	7,079.00		2,000.00		

Stage	Formation	Frac Type			
2	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/12/2011	10078 - 10200		6,357.00	7,704.00	5 Min: 4102
					10 Min: 3802
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3661
99.20	8,519.00	5,045.00	1.09		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,835.00	5,360.00		2,000.00		

Stage	Formation	Frac Type			
3	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/12/2011	9928 - 10050		6,574.00	7,970.00	5 Min: 3758
					10 Min: 3535
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3412
93.40	8,496.00	4,892.00	1.07		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,941.00	5,524.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary

Stage	Formation	Frac Type			
4	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/12/2011	9778 - 9900		5,871.00	7,764.00	5 Min: 4618
					10 Min: 4226
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3982
98.60	8,600.00	5,484.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,231.00	5,258.00		2,000.00		

Stage	Formation	Frac Type			
5	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/12/2011	9630 - 9750		9,517.00	7,607.00	5 Min: 4994
					10 Min: 4589
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4365
94.10	8,055.00	5,699.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
205,823.00	5,219.00		2,000.00		

Stage	Formation	Frac Type			
6	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/12/2011	9478 - 9598		6,377.00	7,388.00	5 Min: 4938
					10 Min: 4694
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4553
99.40	8,080.00	5,743.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
198,669.00	5,164.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
7	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	9328 - 9450		6,705.00	7,659.00	5 Min: 5079
					10 Min: 4786
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4632
98.30	8,832.00	5,609.00	1.16		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
198,794.00	5,269.00		2,000.00		
Stage	**Formation**	**Frac Type**			
8	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	9178 - 9300		6,604.00	7,401.00	5 Min: 4930
					10 Min: 4506
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4292
99.80	7,662.00	5,677.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
199,445.00	5,136.00		2,000.00		
Stage	**Formation**	**Frac Type**			
9	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	9028 - 9150		6,984.00	7,538.00	5 Min: 5121
					10 Min: 4742
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4514
99.00	8,039.00	5,886.00	1.2		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,935.00	5,463.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
10	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	8878 - 9000		6,086.00	7,524.00	5 Min: 4611
					10 Min: 4201
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3961
99.70	7,976.00	5,701.00	1.18		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
203,679.00	5,116.00		2,000.00		
Stage	**Formation**	**Frac Type**			
11	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	8728 - 8848		5,937.00	6,899.00	5 Min: 4869
					10 Min: 4602
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4421
97.80	7,375.00	5,638.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
205,036.00	5,125.00		2,000.00		
Stage	**Formation**	**Frac Type**			
12	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/13/2011	8578 - 8714		6,064.00	7,077.00	5 Min: 4988
					10 Min: 4750
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4578
95.10	8,468.00	5,626.00	1.17		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
198,364.00	5,081.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
13	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/14/2011	8428 - 8550		5,945.00	7,235.00	5 Min: 4779
					10 Min: 4441
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4248
99.96	7,953.00	5,581.00	1.16		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
200,832.00	5,113.00		2,000.00		
Stage	**Formation**	**Frac Type**			
14	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/14/2011	8278 - 8400		5,927.00	6,876.00	5 Min: 4957
					10 Min: 4695
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 4503
96.40	7,249.00	5,501.00	1.15		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
205,957.00	5,164.00		2,000.00		
Stage	**Formation**	**Frac Type**			
15	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/14/2011	8128 - 8250		6,108.00	7,468.00	5 Min: 4113
					10 Min: 3793
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3614
98.00	8,862.00	5,191.00	1.11		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
205,236.00	5,075.00		2,000.00		

EQT WR-35	Completion	Attachment	Well	Treatment	Summary
Stage	**Formation**	**Frac Type**			
16	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/14/2011	7978 - 8100		6,765.00	7,900.00	5 Min: 0
					10 Min: 0
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 0
78.10	8,872.00	0.00	0		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
172,144.00	5,871.00		2,000.00		
Stage	**Formation**	**Frac Type**			
17	MARCELLUS	Slickwater			
Date	**From / To**	**# of perfs**	**BD Press**	**ATP Psi**	**SIP Detail**
11/15/2011	7828 - 7950		6,889.00	7,219.00	5 Min: 3837
					10 Min: 3632
Avg Rate	**Max Press PSI**	**ISIP**	**Frac Gradient**		15 Min: 3523
99.60	8,190.00	5,001.00	1.1		
Sand Proppant	**Water-bbl**	**SCF N2**	**Acid-Gal**		
202,655.00	5,274.00		2,000.00		

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 1/3/13
API #: 47-041-00190 W

Farm name: Francis J. Lydon Operator Well No.: AW-9465

LOCATION: Elevation: 1028.29' (GL) Quadrangle: Camden 7.5'

District: Freemans Creek County: Lewis
Latitude: 900 Feet South of 39 Deg. 07 Min. 30 Sec.
Longitude 8300 Feet West of 80 Deg. 35 Min. 00 Sec.

Company: Dominion Transmission, Inc.

Address: 445 West Main St.	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Clarksburg, WV 26301	13 3/8"	141'	141'	59 Cu. Ft.
Agent: James D. Blasingame	8 5/8"	1886'	1886'	297 Cu. Ft.
Inspector: Billy Hatfield	7"	2195'	510'	Existing
Date Permit Issued: June 29, 2012	4 1/2"	2174'	2174'	498 Cu. Ft.
Date Well Work Commenced: September 5, 2012				
Date Well Work Completed: October 15, 2012				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☐ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 2256'				
Total Measured Depth (ft): 2256'				
Fresh Water Depth (ft.): 75' and 500'				
Salt Water Depth (ft.):				
Is coal being mined in area (N/Y)? No				
Coal Depths (ft.): 430'-434'				
Void(s) encountered (N/Y) Depth(s) No				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Gantz - Storage Field Operations Pay zone depth (ft) 2228'-2247'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

1/3/13
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Bond Log, Gamma, Neutron,Temp.,Casing Inspection Log

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

Ran 141' of 13 3/8" casing, cut and pulled 1,685' of 7" casing, perforated 8 5/8" casing from 564'-570' with eight shots and squeezed cement to surface on 8 5/8" and 13 3/8". Ran 4 1/2" casing to 2,174' on formation packer shoe inside 7" stub and cemented to surface.

Plug Back Details Including Plug Type and Depth(s): N/A

Formations Encountered: Top Depth / Bottom Depth

Surface:

Re-work of existing well see original completion report.

WR-35
Rev (9-11)

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas
Well Operator's Report of Well Work

DATE: 1/3/13
API #: 47-033-01510 W

Farm name: Petitto Brothers, Inc. Operator Well No.: CW-244

LOCATION: Elevation: 1378.72' (GL) Quadrangle: West Milford, 7.5'

District: Grant County: Harrison
Latitude: 3,755' Feet South of 39 Deg. 12 Min. 30 Sec.
Longitude 12,180' Feet West of 80 Deg. 22 Min. 30 Sec.

Company: Dominion Transmission, Inc.

Address: 445 West Main St.	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Clarksburg, WV 26301	10 3/4"	183'	183'	Existing
Agent: James D. Blasingame	8 5/8"	1141'	1141'	Existing
Inspector: Tristan Jenkins	7"	1618'	1618'	Existing
Date Permit Issued: July 17, 2012	4 1/2"	2714'	2714'	Existing
Date Well Work Commenced: October 22, 2012				
Date Well Work Completed: November 1, 2012				
Verbal Plugging: N/A				
Date Permission granted on: N/A				
Rotary ☐ Cable ☐ Rig ☑				
Total Vertical Depth (ft): 2775'				
Total Measured Depth (ft): 2775'				
Fresh Water Depth (ft.): None				
Salt Water Depth (ft.): 1700'				
Is coal being mined in area (N/Y)? Y				
Coal Depths (ft.): 155'-160'				
Void(s) encountered (N/Y) Depth(s) N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)
Producing formation Storage (Gantz) Pay zone depth (ft) 2072'-2102'
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

Second producing formation N/A Pay zone depth (ft) N/A
Gas: Initial open flow N/A MCF/d Oil: Initial open flow N/A Bbl/d
Final open flow N/A MCF/d Final open flow N/A Bbl/d
Time of open flow between initial and final tests N/A Hours
Static rock Pressure N/A psig (surface pressure) after N/A Hours

RECEIVED
Office of Oil & Gas
JAN 4 2013
WV Department of
Environmental Protection

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature

1/3/13
Date

Were core samples taken? Yes_____ No X Were cuttings caught during drilling? Yes X No_____

Were Electrical, Mechanical or Geophysical logs recorded on this well? If yes, please list Bond Log

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL DEPTH.

Perforated Intervals, Fracturing, or Stimulating:

N/A

Plug Back Details Including Plug Type and Depth(s): Cement plug set from 2,775'(TD) to 2,220' using Baker Oil Tools cement retainer set at 2,484' with 2 7/8" tailpipe. Squeezed 2.5 bbls. of cement into Fourth, Fifth, Fifth Stray Sands.

Formations Encountered: Top Depth / Bottom Depth

Surface:

Partial plugging of existing well see original completion report.